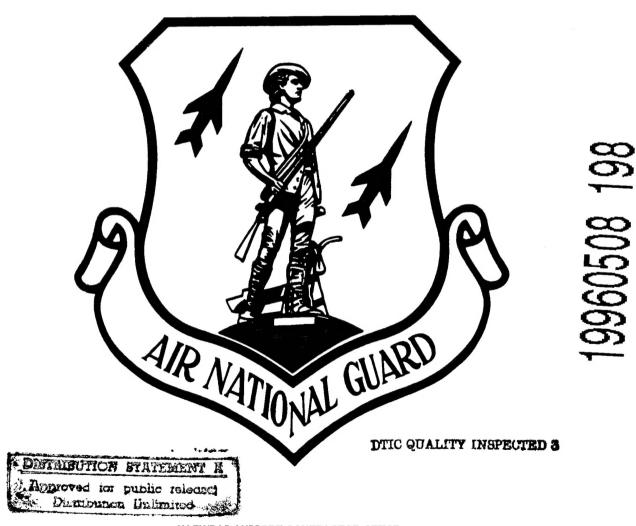
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SITE CHARACTERIZATION REPORT VOLUME III (Appendix G)

147TH FIGHTER INTERCEPTOR GROUP TEXAS AIR NATIONAL GUARD ELLINGTON FIELD HOUSTON, TEXAS

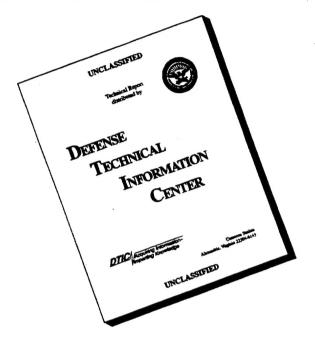
MAY 1995



HAZWRAP SUPPORT CONTRACTOR OFFICE

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4. TITLE AND SUBTITLE Installation Restoration Program 147th Fighter Interceptor Group Ellington Field, Houston, Texas 6. AUTHOR(S) N/A	m Site Characterization		S. FUNDING NUMBERS 92-30-168
7. PERFORMING ORGANIZATION NAME((5) AND ADDRESS(ES)		8. PERFORMING ORGANIZATION
Halliburton NUS Corporation Post Office Box 4574 Houston, TX 77210-4574			REPORT NUMBER
9. SPONSORING/MONITORING AGENCY Hazardous Waste Remedial Act Martin Marietta Energy System	ions Program		10. SPONSORING/MONITORING AGENCY REPORT NUMBER RG-07-315-0432
Oak Ridge, TN 37831		# 1. · · · · · · · · · · · · · · · · · ·	a to said it have
11. SUPPLEMENTARY NOTES			
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Site Characterization Report, Vo A Site Characterization was per the Base Petroleum, Oils, and L below the Texas Natural Resour The report recommended that the with the additional information human health exist then perform	rformed at one site at the Lubricants Storage Area rce Conservation Comm he risk assessment perform this report. If the	ne 147th Fighter Inter 1. All contamination in hission action limits. formed as part of the Secrit assessment show	dentified at the site was Site Investigation be up-dated w that no significant risks to
Volume III (Appendix G) of this	report consist of the La	aboratory Analytical F	Reports
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FINAL

INSTALLATION RESTORATION PROGRAM SITE CHARACTERIZATION REPORT

VOLUME III APPENDIX G

147TH FIGHTER INTERCEPTOR GROUP TEXAS AIR NATIONAL GUARD ELLINGTON FIELD HOUSTON, TEXAS

PREPARED BY
HALLIBURTON NUS CORPORATION
PROJECT NUMBER 1K94

MAY 1995

Appendix G

Laboratory Analytical Reports

TABLE G-1 FINAL

ANALYTICAL RESULTS FOR SOIL SAMPLES TPH AND BTEX POL Storage Area

Ellington Field (ANGRC)

				igton i loid ()				
Sample ID	Soil	Sample	TPH	Benzene	Toluene	Ethylbenzene	Xylene	Total
	Boring	Depth	(mg/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	BTEX
	_			h l				(ug/kg)
<u> </u>								
02-SB15-A-A	SB-15	0-2	35	NA	NA	NA	NA	NA
02-SB15-B-A	SB-15	12-14	<27	NA	NA	NA	NA	NA
02-SB15-C-A	SB-15	20-22	49	NA	NA	NA	NA	NA
02-FD15-C-A	SB-15	20-22	<24	NA	NA	NA	NA	NA
021B10 CX	00.10	20 22						
02-SB16-A-A	SB-16	4-6	40	<5J	33J	32J	21J	91
02-SB16-B-A	SB-16	8-10	41	(a)	(a)	(a)	(a)	(a)
02-SB16-C-A	SB-16	20-22	37	<5	<5	<5	<5	<20
02-3B10-C-A	36-10	20-22	37					\20
02 CD17 A A	CD 17	2-4	54	<5	<5	<5	<5	<20
02-SB17-A-A	SB-17		42	<5	<5	<5	<5	<20
02-SB17-B-A	SB-17	8-10				<5	<5	<20
02-SB17-C-A	SB-17	22-24	38	<5	<5	< 5	< 5	< 20
00.0010	00.40	0.0	F0		-r		~F	-20
02-SB18-A-A	SB-18	0-2	50	<5	< 5	<5	< 5	<20
02-SB18-B-A	SB-18	10-12	38	(a)	(a)	(a)	(a)	(a)
02-SB18-C-A	SB-18	18-20	37	<5	<5	<5	<5	<20
			r		r	T		
02-SB19-A-A	SB-19	2-4	<27	(a)	(a)	(a)	(a)	(a)
02-SB19-B-A	SB-19	4-6	<27	<5	< 5	<5	< 5	<20
02-SB19-C-A	SB-19	20-22	<25	<5	<5	< 5	<5	<20
					,	T		T
02-SB20-A-A	SB-20	2-4	39	<5	<5	7.9J	<5	22.9
02-SB20-B-A	SB-20	8-10	<27	(a)	(a)	(a)	(a)	(a)
02-SB20-C-A	SB-20	20-22	36	<5	<5	<5	< 5	<20
02-SB21-A-A	SB-21	2-4	<27	<5	<5J	8.8J	<5	23.8
02-SB21-B-A	SB-21	4-6	49	< 5	<5	<5	< 5	<20
02-FD21-B-A	SB-21	4-6	<28	<5	<5	< 5	<5	<20
02-SB21-C-A	SB-21	20-22	49	<5	<5	< 5	<5	<20
02-SB22-A-A	SB-22	4-6	<27	<5	<5	<5	<5	< 20
02-SB22-B-A	SB-22	6-8	<28	<5	<5	<5	<5	<20
02-SB22-C-A	SB-22	22-24	38	<5	<5	<5	<5	<20
			1			•		
02-SB23-A-A	SB-23	0-2	<22	<5	<5	<5	<5	<20
02-SB23-B-A	SB-23	6-8	<28	<5	<5	16J	<5	31
02-SB23-C-A	SB-23	20-22	<24	<5	<5	<5	<5	<20
02-5B23-C-A	SB-23	20-22	<24	<5	<5	<5	<5	<20
02 1 D20-C-A	1 00 20	. 2022	1 127					,
02-SB24-A-A	SB-24	1-3	<29	<5	<5	<5	<5	<20
02-SB24-A-A	SB-24	11-13	<25	<5	<5	<5	<5	<20
		17-19	<25	<5	<5	<5	<5	<20
02-SB24-C-A	SB-24	17-19	1 < 25		1 /2			_ \20
00 0005 4 4	CDOE	1.0	/20		/5	<5	<5	<20
02-SB25-A-A	SB-25	1-3	<28	<5	<5			i
02-SB25-B-A	SB-25	5-7	<28	<5	90J	700J	67J	862
02-SB25-C-A	SB-25	17-19	<24	< 5	<5	<5	< 5	<20

TABLE G-1 FINAL

ANALYTICAL RESULTS FOR SOIL SAMPLES TPH AND BTEX POL Storage Area Ellington Field (ANGRC)

02-SB26-A-A	SB-26	0-2	43	<5	<5	<5	<5	<20
02-SB26-B-A	SB-26	6-8	<27	(a)	(a)	(a)	(a)	(a)
02-SB26-C-A	SB-26	18-20	< 25	180J	190J	960J	57J	1387
02-FD26-C-A	SB-26	18-20	<25	<5J	<5J	11J	<5J	26
02-SB27-A-A	SB-27	0-2	<21	<5	<5	<5	<5	<20
02-SB27-B-A	SB-27	14-16	<26	3000	8000	2500	9900	23400
02-SB27-C-A	SB-27	22-24	<25	<5	<5	<5	<5	<20
02 0227 03.				·				
02-SB28-A-A	SB-28	1-3	<26	<5	7.3J	<5	<5	22.3
02-SB28-B-A	SB-28	7-9	<28	<5	7.6J	<5	<5	22.6
02-SB28-C-A	SB-28	20-22	<24	<5	<5	<5	<5	<20
OL OBLO O A	00 20			L				
02-SB29-A-A	SB-29	1-3	<28	12J	<5	25J	<5	<47
02-SB29-B-A	SB-29	5-7	<26	<5	<5	<5	<5	<20
02-SB29-C-A	SB-29	17-19	<25	<5	<5	<5	<5	<20
02 0520 0 K	0520			1				
02-SB30-A-A	SB-30	0-2	<27	<5	<5	<5	<5	<20
02-SB30-B-A	SB-30	8-10	<24	<5	<5	<5	<5	<20
02-SB30-C-A	SB-30	16-18	<25	<5	<5	<5	<5	<20
02-3B30-C-A	00.00	10 10	120					120
02-SB31-A-A	SB-31	0-2	<26	<5	<5	<5	<5	<20
02-SB31-B-A	SB-31	10-12	<25	24J	85J	250J	150J	509
02-SB31-C-A	SB-31	16-18	<25	<5	<5	<5	<5	<20
02-FD31-C-A	SB-31	16-18	<25	<5	<5	<5	<5	<20
02.00.07.					I			
02-SB32-A-A	SB-32	0-2	<26	<5	< 5	<5	<5	<20
02-SB32-B-A	SB-32	8-10	<27	<5	< 5	<5	<5	<20
02-SB32-C-A	SB-32	16-18	<26	<5	< 5	<5	<5	<20
02-FD32-C-A	SB-32	16-18	<25	<5	< 5	<5	<5	<20
02-SB33-A-A	SB-33	0-2	<25	<5	<5	<5	< 5	<20
02-SB33-B-A	SB-33	12-14	<26	<5	<5	<5	<5	<20
02-SB33-C-A	SB-33	16-18	<24	<5	<5	<5	<5	<20
02 0000 0 71					<u> </u>			
02-SB34-A-A	SB-34	0-2	38J	<5	<5	<5	<5	<20
02-SB34-B-A	SB-34	14-16	<24J	<5	<5	<5	<5	<20
02-SB34-C-A	SB-34	16-18	<25J	<5	<5	<5	< 5	<20
02-FD34-C-A	SB-34	16-18	<26J	<5	<5	<5	<5	<20
		<u></u>						
02-SB35-A-A	SB-35	0-2	<24J	<5	<5	<5	<5	<20
02-SB35-B-A	SB-35	16-18	25J	<5	<5	<5	<5	<20
02-MW11-A-A	MW-11	0-2	24	<5	<5	< 5	<5	<20
02-MW11-B-A	MW-11	14-16	<25	<5	<5	<5	<5	<20
02-MW-11-C-A	MW-11	18-20	<24	<5	<5	<5	<5	<20
	1				1			

⁽a) - refer to Table G-2 for TCL volatile results

J = lab qualifier indicating estimated value

If field is left blank, the qualifier is A - Accept all data

ANALYTICAL RESULTS FOR SOIL SAMPLES TCL VOLATILES POL Storage Area

Ellington Field (ANGRC)

Parameter	Sample ID	02SB16BA	02SB18BA	02SB19AA	02SB20BA	02B26BA
	Depth	8-10	10-12	8-10	4-6	6-8
Chloromethane	ug/kg	<14	<13	<14	<13	<13
Bromomethane	ug/kg	<14	<13	<14	<13	<13
Vinyl Chloride	ug/kg	<14	<13	<14	<13	<13
Chloroethane	ug/kg	<14	<13	<14	<13	<13
Methylene chloride	ug/kg	<14	<13	<14	<13	<13
Acetone	ug/kg	< 270	<13J	<14J	<13J	<540
Carbon disulfide	ug/kg	<14	<13	<14	<13	<13
1,1-dichloroethene	ug/kg	<14	<13	<14	<13	<13
1,1-dichloroethane	ug/kg	<14	<13	<14	<13	<13
1,2-dichloroethene (total)	ug/kg	<14	<13	<14	<13	<13
Chloroform	ug/kg	<14	<13	<14	<13	<13
1,2-dichloroethane	ug/kg	<14	<13	<14	<13	<13
2-butanone	ug/kg	<14	<13	<14	<13	47J
1,1,1-trichlorethane	ug/kg	<14	<13	<14	<13	<13
Carbon Tetrachloride	ug/kg	<14	<13	<14	<13	<13
Bromodichloromethane	ug/kg	<14	<13	<14	<13	<13
1,2-dichloropropane	ug/kg	<14	<13	<14	<13	<13
cis-1,3-dichloropropene	ug/kg	<14	<13	<14	<13	<13
Trichloroethene	ug/kg	<14	<13	<14	<13	<13
Dibromochloromethane	ug/kg	<14	<13	<14	<13	<13
1,1,2-trichloroethane	ug/kg	<14	<13	<14	<13	<13
Benzene	ug/kg	<14	<13	<14	<13	<13
trans-1,3-dichloropropene	ug/kg	<14	<13	<14	<13	<13
Bromoform	ug/kg	<14	<13	<14	<13	<13
4-methyl-2-pentonone	ug/kg	<14	<13	<14	<13	<13
2-hexanone	ug/kg	<14	<13	<14	<13	<13
Tetrachloroethene	ug/kg	<14	<13	<14	<13	<13
1,1,2,2-Tetrachloroehtane	ug/kg	<14	<13	<14	<13	<13
Toluene	ug/kg	<14	<13	<14	<13	2J
Chlorobenzene	ug/kg	<14	<13	<14	<13	<13
Ethylbenzene	ug/kg	<14	<13	<14	<13	170
Styrene	ug/kg	<14	<13	<14	<13	<13
Xylene (total)	ug/kg	<14	<13	<14	<13	43
TOTAL BTEX	ug/kg	<56	<52	< 56	<52	228

J=lab qualifier indicating estimated value If field is left blank, lab qualifier is A - Accept all data

TABLE G-3 FINAL

ANALYTICAL RESULTS FOR SOIL SAMPLES TCL SEMIVOLATILES

POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02SB16BA	02SB18BA	02SB19AA	02SB20BA	02B26BA
Tarameter	Depth	8-10	10-12	2-4	4-6	6-8
Phenol	ug/kg	<450	<420	<450	<440J	<450
bis-(2-Chloroethyl)Ether	ug/kg	<450	<420	<450	<440	<450
2-Chlorophenol	ug/kg	<450	<420	<450	<440J	<450
1,3-Dichlorobenzene	ug/kg	<450	<420	<450	<440	<450
1,4-Dichlorobenzene	ug/kg	<450	<420	<450	<440J	<450
1,2-Dichlorobenzene	ug/kg	<450	<420	<450	<440	<450
2-Methylphenol	ug/kg	<450	<420	<450	<440	<450
2,2'-oxybis(1-Chloropropane)	ug/kg	<450	<420	<450	<440	<450
4-Methylphenol	ug/kg	<450	<420	<450	<440	<450
N-Nitro-Di-n-Proylamine	ug/kg	<450	<420	<450	<440J	<450
Hexachloroethane	ug/kg	<450	<420	<450	<440	<450
Nitrobenzene	ug/kg	<450	<420	<450	<440	<450
Iosphorone	ug/kg	<450	<420	<450	<440	<450
2-Nitrophenol	ug/kg	<450	<420	<450	<440	<450
2,4-Dimethylphenol	ug/kg	<450	<420	<450	<440	<450
bis(2-Chloroethoxy)Methane	ug/kg	<450	<420	<450	<440	<450
2,4-Dichlorophenol	ug/kg	<450	<420	<450	<440	<450
1,2,4-Trichlorobenzene	ug/kg	<450	<420	<450	<440J	<450
Napthalene	ug/kg	<450	<420	<450	<440	<450
4-Chloroaniline	ug/kg	<450	<420	<450	<440	<450
Hexachlorobutadiene	ug/kg	<450	<420	<450	<440	<450
4-Chloro-3-Methylphenol	ug/kg	<450	<420	<450	<440J	<450
2-Methylnapthalene	ug/kg	<450	<420	<450	<440	<450
Hexachlorocyclopentadiene	ug/kg	<450	<420	<450	<440	<450
2,4,6-Trichlorophenol	ug/kg	<450	<420	<450	<440	<450
2,4,5-Trichlorophenol	ug/kg	<2200	<2000	<2200	<2100	<2200
2-Chloronapthalene	ug/kg	<450	<420	<450	<440	<450
2-Nitroaniline	ug/kg	<2200	<2000	<2200	<2100	<2200
Dimethyl Phthalate	ug/kg	<450	<420	<450	<440	<450
			<u> </u>			L
Acenaphthylene	ug/kg	<450	<420	<450	<440	<450
2,6-Dinitrotoluene	ug/kg	<450	<420	<450	<440	<450
3-Nitroaniline	ug/kg	<2200	<2000	<2200	<2100	<2200
Acenaphthene	ug/kg	<450	<420	<450	<440J	<450
2,4-Dinitrophenol	ug/kg	<2200	<2000	<2200	<2100	<2200
4-Nitrophenol	ug/kg	<2200	<2000	<2200	<2100J	<2200
Dibenzofuran	ug/kg	<450	<420	<450	<440	<450
2,4-Dinitrotoluene	ug/kg	<450	<420	<450	<440J	<450
Diethylphthalate	ug/kg	<450	<420	<450	<440	<450
4-Chlorophenyl-phenylether	ug/kg	<450	<420	<450	<440	<450
Flourene	ug/kg	<450	<420	<450	<440	<450
4-Nitroaniline	ug/kg	<2200	<2000	<2200	<2100	<2200
4,6-Dinitro-2-Methylphenol	ug/kg	<2200	<2000	<2200	<2100	<2200
N-Nitrosodiphenylamine	ug/kg	<450	<420	<450	<440	<450
4-Bromophenyl-phenylether	ug/kg	<450	<420	<450	<440	<450
Hexachlorobenzene	ug/kg	<450	<420	<450	<440	<450
Pentachlorphenol	ug/kg	<2200	<2000	<2200	<2100J	<2200

1674-003 G3-1

TABLE G-3

ANALYTICAL RESULTS FOR SOIL SAMPLES TCL SEMIVOLATILES POL Storage Area

Ellington Field (ANGRC)

Phenanthrene	ug/kg	<450	<420	<450	<440	<450
Anthracene	ug/kg	<450	<420	<450	<440	<450
Carbazole	ug/kg	<450	<420	<450	<440	<450
Di-n-Butylphthalate	ug/kg	<450	<420	<450	<440	<450
Fluoranthene	ug/kg	<450	<420	<450	<440	<450
Pyrene	ug/kg	<450	<420	<450	<440J	<450
Butylbenzylphthalate	ug/kg	<450	<420	<450	<440	<450
3,3'-Dichlorobenzadine	ug/kg	<900	<840	<900	<880	<900
Benzo(a) Anthracene	ug/kg	<450	<420	<450	<440	<450
Chrysene	ug/kg	<450	<420	<450	<440	<450
bis(2-Ethylhexyl)Phthalate	ug/kg	<450	<420	<450	<440	<450
Di-n-Octyl Phthalate	ug/kg	<450	<420	<450	<440	<450
Benzo(b) Fluoranthene	ug/kg	<450	<420	<450	<440	<450
Benzo(k)Fluoranthene	ug/kg	<450	<420	<450	<440	<450
Benzo(a)pyrene	ug/kg	<450	<420	<450	<440	<450
Indeno(1,2,3-cd)Pyrene	ug/kg	<450	<420	<450	<440	<450
Dibenz(a,h)Anthracene	ug/kg	<450	<420	<450	<440	<450

<450

ug/kg

<420

<450

<440

<450

Benzo(g,h,i)Perylene

1674-003 G3-2

J = lab qualifier indicating estimated value

If field is left blank, lab qualifier is A - Accept all data

TABLE G-4

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES TPH, TCL VOLATILES, TDS POL Storage Area Ellington Field (ANGRC)

02MW16AA MW-16 <0.23 A A A A A Ϋ́ AN 02MW14AA MW-14 0.2J 02MW13AA MW-13 <0.2J ž 02MW12AA MW-12 <0.2J O2MW11AA MW-11 01 0 0.27 02FD10AA MW-10 Duplicate <0.2J NA ۸ 10 > 10 02MW10AA MW-10 <0.2J 680 O2MW09AA MW-09 <0.2J NA V ₹ 02MW08AA MW-08 0.4 A 02MW07AA MW-07 0.27 < 10 0 V V V Sample ID Source mg/l | 1/5n | /g/ % Total Petroleum Hydrocarbons
Total Dissolved Solids
VOLATILES 1,2-dichloroethene (total) trans-1,3-dichloropropene Carbon Tetrachloride Bromodichloromethane 1,2-dichloropropane cis-1,3-dichloropropene 1,1,2,2-tetrachloroethane Parameter Trichloroethene
Dibromochloromethane
1,1,2-trichloroethane Bromoform 4-methyl-2-pentanone Chloroethane
Methylene chloride
Acetone
Carbon disulfide
1,1-dichloroethane 1,1,1-trichlorethane ,2-dichloroethane Tetrachloroethene Chloromethane Bromomethane Vinyl Chloride Chlorobenzene Ethylbenzene Xylene (total) 2-butanone 2-hexanone Styrene

TABLE G-5 FINAL

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES TCL SEMIVOLATILES POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02MW07AA	02MW10AA	02FD10AA	02MW11AA
	Source	MW-07	MW-10	MW-10	MW-11
				Duplicate	

				Duplicate	
SEMI-VOLATILES				T	
Phenol	ug/l	<10	<10	<10	<10
bis-(2-Chloroethyl)Ether	ug/l	<10	<10	<10	<10
2-Chorophenol	ug/l	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/l	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/l	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/l	<10	<10	<10	<10
2-Methylphenol	ug/l	<10	<10	<10	<10
2,2'-oxybis(1-Chloropropane)	ug/l	<10	<10	<10	<10
4-Methylphenol	ug/l	<10	<10	<10	<10
N-Nitro-Di-n-Propylamine	ug/l	<10	<10	<10	<10
Hexachloroethane	ug/l	<10	<10	<10	<10
Nitrobenzene	ug/l	<10	<10	<10	<10
Iosphorone	ug/l	<10	<10	<10	<10
2-Nitrophenol	ug/l	<10	<10	<10	<10
2,4-Dimethylphenol	ug/l	<10	<10	<10	<10
bis(2-Chloroethoxy)Methane	ug/l	<10	<10	<10	<10
2,4-Dichlorophenol	ug/l	<10	<10	<10	<10
1,2,4-Trichlorobenzene	ug/l	<10	<10	<10	<10
Napthalene	ug/l	<10	<10	<10	<10
4-Chloroaniline	ug/l	<10	<10	<10	<10
Hexachlorobutadiene	ug/l	<10	<10	<10	<10
4-Chloro-3-Methylphenol	ug/l	<10	<10	<10	<10
2-Methylnapthalene	ug/l	<10	<10	<10	<10
Hexachlorocyclopentadiene	ug/l	<10	<10	<10	<10
2,4,6-Trichlorophenol	ug/l	<10	<10	<10	<10
2,4,5-Trichlorophenol	ug/l	<25	<25	<25	<25
2-Chloronapthalene	ug/l	<10	<10	<10	<10
2-Nitroaniline	ug/l	<25	<25	<25	<25
Dimethyl Phthalate	ug/l	<10	<10	<10	<10
Acenaphthylene	ug/l	<10	<10	<10	<10
2,6-Dinitrotoluene	ug/l	<10	<10	<10	<10
3-Nitroaniline	ug/l	<25	<25	<25	<25
Acenaphthene	ug/l	<10	<10	<10	<10
2,4-Dinitrophenol	ug/l	<25	<25	<25	<25
4-Nitrophenol	ug/l	<25	<25	<25	<25
Dibenzofuran	ug/l	<10	<10	<10	<10
2,4-Dinitrotoluene	ug/l	<10	<10	<10	<10
Diethylphthalate	ug/l	<10	<10	<10	<10
4-Chlorophenyl-phenylether	ug/l	<10	<10	<10	<10
Flourene	ug/l	<10	<10	<10	<10

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TABLE G-5 (cont'd)

FINAL

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES TCL SEMIVOLATILES POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02MW07AA	02MW10AA	02FD10AA	02MW11AA
	Source	MW-07	MW-10	MW-10	MW-11
				Duplicate	
					r
4-Nitroaniline	ug/l	<25	<25	<25	<25
4,6-Dinitro-2-Methylphenol	ug/l	<25	<25	<25	<25
N-Nitrosodiphenylamine	ug/l	<10	<10	<10	<10
4-Bromophenyl-phenylether	ug/l	<10	<10	<10	<10
Hexachlorobenzene	ug/l	<10	<10	<10	<10
Pentachlorphenol	ug/l	<25	<25	<25	<25
Phenanthrene	ug/l	<10	<10	<10	<10
Anthracene	ug/l	<10	<10	<10	<10
Carbazole	ug/l	<10	<10	<10	<10
Di-n-Butylphthalate	ug/l	<10	<10	<10	<10
Fluoranthene	ug/l	<10	<10	<10	<10
Pyrene	ug/l	<10	<10	<10	<10
Butylbenzylphthalate	ug/l	<10	<10	<10	<10
3,3'-Dichlorobenzadine	ug/i	<10	<10	<10	<10
Benzo(a)Anthracene	ug/l	<10	<10	<10	<10
Chrysene	ug/l	<10	<10	<10	<10
bis(2-Ethylhexyl)Phthalate	ug/l	<10	3J	2J	4J
Di-n-Octyl Phthalate	ug/l	<10	<10	<10	<10
Benzo(b)Fluoranthene	ug/l	<10	<10	<10	<10
Benzo(k)Fluoranthene	ug/l	<10	<10	<10	<10
Benzo(a)pyrene	ug/l	<10	<10	<10	<10
Indeno(1,2,3-cd)Pyrene	ug/l	<10	<10	<10	<10
Dibenz(a,h)Anthracene	ug/l	<10	<10	<10	<10
Benzo(g,h,i)Perylene	ug/l	<10	<10	<10	<10

NA - not applicable

J = lab qualifier indicating estimated value

If field is left blank, lab qualifier is A - Accept all data

TABLE G-6

ANALYTICAL RESULTS FOR TRIP BLANKS POL Storage Area Ellington Field

Parameter	Sample ID	02TB01AA	02TB02AA	02TB03AA	02TB04AA	02TB06AA	02TB06AA	02TB07AA	02TB08AA	02TB09AA	02TB10AA	02TB11AA	\Box
Chloromethane	l/bn	<10	<10	<10	<10	AN	<10	٧	AN	AN	AN	N.	
Bromomethane	l/Bn	<10	<10	<10	<10	٧V	<10	ΝA	AN	ΑN	۷A	ΝA	_
Vinyl Chloride	l/gu	< 10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	1
Chloroethane	√bn	<10	<10	<10	<10	WA	<10	٧V	ΥN	NA	NA	NA	-7
Methylene chloride	l/0n	< 10	<10	<10	<10	AN	<10	NA	ΝA	NA	NA	NA	
Acetone	√bn	<10	<10	<10	<10	ΝA	<10	NA	NA	AN	AN	AN	
Carbon disulfide	/bn	<10	<10	<10	<10	AN	<10	NA	NA	NA	AN	۷V	-
1,1-dichtoroethene	l/Bn	<10	<10	<10	< 10	NA	<10	NA	NA	NA	NA AN	NA	-
1,1-dichloroethane	l/Bn	<10	<10	<10	< 10	ΑN	<10	٧N	٩N	٧N	٧A	AN	
1,2-dichloroehtene	1/Bn	<10	<10	<10	< 10	VΑ	<10	٧N	٧N	٧A	ΥN	AN	
Chloroform	1/8n	<10	<10	<10	< 10	ΑN	<10	٧N	٧N	٧N	AN	AN	
1,2-dichloroethane	√8n	<10	<10	<10	< 10	ΑN	<10	٧N	ĄN	ΥN	ΑN	ΑN	
2-butanone	1/Bn	<10	<10	<10	<10	NA	<10	Ϋ́	AN	AN	AN	AN	
1,1,1-trichlorethane	l/bn	<10	< 10	<10	<10	ΝA	<10	٧×	۸N	۷V	٧N	AN	. 1
Carbon Tetrachloride	l/gu	<10	<10	<10	< 10	٧N	<10	ΑN	ĄN	ΑN	AN	ΑN	. ~
Bromodichloromethane	l/Bn	<10	< 10	<10	< 10	ΥN	<10	NA	AN	٧N	ΑN	ΑN	- 1
1,2-dichloropropane	I/Bn	< 10	< 10	<10	<10	ΥN	<10	NA	NA	AN	ΑN	٧×	- 1
cis-1,3-dichloropropene	l/gu	<10	<10	<10	<10	ΥN	<10	NA	NA	ΑN	NA	ΥN	
Trichoroethane	l/bn	<10	< 10	<10	<10	٧N	<10	٧×	۸A	ΥN	NA	٧	- 1
Benzene	l/Bn	<10	<10	<10	<10	9>	<10	9>	9>	<6	9>	9>	- 1
trans-1,3-dichloropropene	l/bn	<10	< 10	<10	<10	WA	<10	NA	NA	AN	AN	ΥN	. 1
Bromoform	l/bn	<10	<10	<10	<10	٧N	<10	AN	AN	NA	ΑN	AN	- 1
4-methyl-2-pentanone	l/8n	<10	< 10	<10	<10	ΝA	<10	AN	NA	AN	NA	AN	- 1
2-hexanone	l/bn	<10	< 10	<10	<10	NA	<10	NA	٧V	NA	NA	AN	1
Tetrachloroethene	l/bn	<10	<10	<10	<10	AN	<10	NA	NA	AN	NA	NA	_
1, 1, 2, 2-tetrachioroethane (total)	l/ðn	<10	<10	<10	<10	٧N	<10	NA	NA	ΝΑ	ΝΑ	ΑN	
Toluene	/ðn	<10	<10	<10	<10	9>	<10	9>	9>	9>	9>	9>	
Chlorobenzene	l/Bn	<10	< 10	<10	<10	NA	<10	NA	ΑN	NA	NA	NA	
Ethylbenzene	l/Bn	<10	<10	<10	< 10	<6	<10	<6	<5	<6	<6	<6	- 1
Styrene	l/Bn	<10	<10	<10	<10	۷N	<10	NA	NA	NA	NA	NA	
Xylene (total)	//Bn	< 10	<10	<10	< 10	9>	<10	9>	<6	<5	<5	< 5	

If field is left blank, the qualifier is A - Accept all data

NA - Not Applicable

TABLE G-7

ANALYTICAL RESULTS FOR RINSATE BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02RB01AA	02RB02AA	02RB03AA	02RB04AA	02RB05AA	02RB06AA	02RB07AA	02RB08AA
Total Petroleum Hydrocarbons	mg/kg	<20	<20	<20	<20	<20	<20	<207	<0.23
VOLATILES									
Chloromethane	ng/kg	<10	<10	<10	ΑN	<10	AN	ΝΑ	<10
Bromomethane	ug/kg	<10	<10	<10	NA	<10	AN	ΝΑ	<10
Vinyl Chloride	ug/kg	<10	<10	<10	ΑN	<10	AN	ΑN	<10
Chloroethane	ug/kg	<10	<10	<10	NA	<10	AN	NA	<10
Methylene chloride	ng/kg	9	9	4	NA	9	AN	ΝA	2
Acetone	ng/kg	<10	<10	<10	ΝΑ	31	AN	NA	<10
Carbon disulfide	ng/kg	<10	<10	<10	ΑN	<10	AN	NA	<10
1,1-dichloroethene	ug/kg	<10	<10	<10	ΑN	<10	NA	AN	<10
1,1-dichloroethane	ug/kg	<10	<10	<10	ΑN	<10	AN	NA	<10
1,2-dichloroethene (total)	ng/kg	<10	<10	<10	NA	<10	AN	ΝA	<10
Chloroform	ug/kg	<10	<10	<10	NA	<10	A Z	NA	<10
1,2-dichloroethane	ug/kg	<10	<10	<10	AN	<10	AN	NA	<10
2-butanone	ug/kg	<10	<10	<10	ΑN	<10	AN	NA	<10
1,1,1-trichlorethane	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Carbon Tetrachloride	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Bromodichloromethane	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
1,2-dichloropropane	ug/kg	<10	<10	<10	NA	<10	NA	ΑN	<10
cis-1,3-dichloropropene	ug/kg	<10	<10	<10	NA	<10	NA	٩V	<10
Trichloroethene	ug/kg	<10	<10	<10	NA	<10	AN	NA	<10
DiBromochloromethene	ug/kg	<10	<10	<10	NA	<10	ΝΑ	NA	<10
1,1,2-trichloroethane	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Benzene	ug/kg	<10	<10	<10	<5	<10	<5	<5	<10
trans-1,3-dichloropropene	ug/kg	<10	<10	<10	NA	< 10	NA	NA	<10
Bromoform	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
4-methyl-2-pentanone	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
2-hexanone	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Tetrachloroethene	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
1,1,2,2-tetrachloroethane	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Toluene	ug/kg	<10	<10	<10	<5	<10	<5	<5	<10
Chlorobenzene	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Ethylbenzene	ug/kg	<10	<5	<10	<5	2.3	<5	<5	<10
Styrene	ug/kg	<10	<10	<10	NA	<10	NA	NA	<10
Xylene (total)	ug/kg	<10	<10	<10	< 5	<10	<5	<5	<10
SEMI-VOLATILES									
Phenol	ug/kg	<330	<330	<330	Y N	<330	NA V	A A	<10

TABLE G-7 (cont'd)

ANALYTICAL RESULTS FOR RINSATE BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02RB01AA	02RB02AA	02RB03AA	02RB04AA	02RB05AA	O2RBO6AA	02RB07AA	O2RBO8AA
bis-(2-Chloroethyl)Ether	ug/kg	<330	<330	<330	AN	<330	A'N	AN	<10
2-Chtorophenol	ug/kg	<330	<330	<330	NA	<330	AN	AN	<10
1,3-Dichlorobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
1,4-Dichlorobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
1,2-Dichlorobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2-Methylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,2'-oxybis(1-Chloropropane)	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Methylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
N-Nitro-Di-n-Propylamine	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Hexachloroethane	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Nitrobenzene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
losphorone	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2-Nitrophenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,4-Dimethylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
bis(2-Chloroethoxy)Methane	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
1,2,4-Trichlorobenzene	ug/kg	29	<330	<330	NA	<330	NA	NA	<10
Napthalene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Chloroaniline	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Hexachlorobutadiene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Chloro-3-Methylphenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2-Methylnapthalene	ug/kg	<330	<330	<330	NA	<330	ΝA	NA	<10
Hexachlorocyclopentadiene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,4,6-Trichlorophenol	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,4,5-Trichlorophenol	ug/kg	<1600	<1600	< 1600	NA	<1600	NA	NA	<25
2-Chloronapthalene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2-Nitroaniline	ug/kg	<1600	<1600	< 1600	NA	<330	NA	NA	<25
Dimethyl Phthalate	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Acenaphthylene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,6-Dinitrotoluene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
3-Nitroaniline	ug/kg	< 1600	<1600	<1600	NA	<1600	NA	NA	<25
Acenaphthene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
2,4-Dinitrophenol	ug/kg	<1600	<1600	<1600	NA	<330	NA	NA	<25
4-Nitrophenol	ug/kg	<1600	<1600	<1600	NA	< 1600	NA	NA	<25
Dibanzofuran	ug/kg	<330	<330	<330	NA	<330	ΝΑ	NA	<10
2,4-Dinitrotoluene	ug/kg	<330	<330	<330	NA	<330	NA	ΝΑ	<10
Diethylphthalate	ug/kg	<330	<330	<330	NA	<330	ΝA	ΝA	<10
4-Chlorophenyl-phenylether	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Flourane	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
4-Nitroaniline	ug/kg	< 1600	<1600	<1600	NA	<1600	ΝΑ	NA	<25
4,6-Dinitro-2-Methylphenol	ug/kg	<1600	<1600	< 1600	NA	<1600	ΝΑ	NA	< 25

TABLE G-7 (cont'd)

ANALYTICAL RESULTS FOR RINSATE BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02RB01AA	02RB02AA	02RB03AA	02RB04AA	02RBO5AA	02RB06AA	02RB07AA	02RBO8AA
N-Nitrocodiphendemine	na/ka	7330	/330	/330	VI	/330	VIV	ALA	710
4-Bromonhanyl-phanylether	ווע/גיו	<330	<330	< 330	V V	7330	Q 2	V	2 2 2
Hexachlorobenzene	ug/kg	<330	<330	<330	ΑN	<330	NA N	AN	>10
Pentachlorphenol	ug/kg	<1600	<1600	<1600	NA	<1600	NA	NA	<10
Phenanthrene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Anthracene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Carbazole	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Di-n-Butylphthalate	ug/kg	<330	<330	<330	NA	<330	NA	ΑN	<10
Fluoranthene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Pyrene	ug/kg	81	<330	<330	ΝΑ	<330	NA	NA	<10
Butylbenzylphthalate	ug/kg	<330	<330	<330	NA	<330	NA	ΝΑ	<10
3,3'-Dichlorobenzadine	ug/kg	<660	< 660	<660	ΑN	<660	AN	NA	<10
Benzo(a) Anthracene	ug/kg	<330	<330	<330	NA	<330	ΝΑ	NA	<10
Chrysene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
bis(2-Ethylhexyl)Phthalate	ug/kg	<330	<330	<330	NA	<330	ΑN	NA	<10
Di-n-Octyl Phthalate	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Benzo(b)Fluoranthene	ug/kg	<330	<330	<330	NA	<330	ΝΑ	NA	<10
Benzo(k)Fluoranthene	ug/kg	<330	<330	<330	NA	<330	NA	ΝA	<10
Benzo(a)pyrene	ug/kg	<330	<330	<330	NA	<330	NA	ΝA	<10
Indeno(1,2,3-cd)Pyrene	ug/kg	<330	<330	<330	NA	<330	ΑN	NA	<10
Dibenzo(a,h)Anthracene	ug/kg	<330	<330	<330	NA	<330	NA	NA	<10
Benzo(g,h,i)Perylene	ug/kg	<330	<330	<330	NA	<330	NA	AN	<10

NA - Not Applicable

J = lab qualifier indicating estimated value

If field is blank, lab qualifier is A - Accept all data

TABLE G-8 FINAL

ANALYTICAL RESULTS FOR FIELD BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02FB01AA	02FB02AA
Total Petroleum Hydrocarbons	mg/kg	<20	<20
VOLATILES	ilig/kg	720	\20
Chloromethane	ug/kg	<10	<10
Bromomethane	ug/kg	<10	<10
Vinyl Chloride	ug/kg	<10	<10
Chlorethane	ug/kg	<10	<10
Methylene chloride	ug/kg	7	<10
Acetone	ug/kg ug/kg	<10	<10
Carbon disulfide	ug/kg	<10	<10
1,1-dichloroethene	ug/kg	<10	<10
1,1-dichloroethane	ug/kg	<10	<10
1,2-dichloroethene	ug/kg	<10	<10
Chloroform	ug/kg	<10	<10
1,2-dichloroethane	ug/kg ug/kg	<10	<10
2-butanone	ug/kg ug/kg	<10	<10
1,1,1-trichlorethane	ug/kg ug/kg	<10	<10
Carbon Tetrachloride	ug/kg ug/kg	<10	<10
Bromodichloromethane	ug/kg ug/kg	<10	<10
		<10	<10
1,2-dichloropropane	ug/kg	<10	<10
cis-1,3-dichloropropene Trichloroethene	ug/kg	<10	<10
Dibromochloromethane	ug/kg	<10	<10
1,1,2-trichloroethane	ug/kg	<10	<10
	ug/kg	<10	<10
Benzene trans-1,3-dichloropropene	ug/kg ug/kg	<10	<10
Bromoform		<10	<10
4-methyl-2-pentanone	ug/kg ug/kg	<10	<10
2-hexanone		<10	<10
Tetrachloroethene	ug/kg	<10	<10
1,1,2,2-tetrachloroethane	ug/kg ug/kg	<10	<10
Toluene		<10	<10
Chlorobenzene	ug/kg	<10	
	ug/kg		<10
Ethylbenzene	ug/kg	<10	<10
Sytrene	ug/kg	<10	<10
Xylene SEMI-VOLATILES	ug/kg	<10	<10
	110/110	-220	2000
Phenol	ug/kg	<330 <330	<330
bis-(2-Chloroethyl)Ether	ug/kg		<330
2-Chlorophenol	ug/kg	<330	<330
1,3-Dichlorobenzene	ug/kg	<330	<330
1,4-Dichlorobenzene	ug/kg	<330	<330
1,2-Dichlorobenzene	ug/kg	<330	<330
2-Methylphenol	ug/kg	<330	<330

1674-008 G8-1

TABLE G-8 (cont'd)

ANALYTICAL RESULTS FOR FIELD BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02FB01AA	02FB02AA
2.21 ambig(1.Chloropropage)	110 /kg	<330	<330
2,2'-oxybis(1-Chloropropane)	ug/kg	<330	<330
4-Methylphenol	ug/kg	<330	<330
N-Nitro-Di-n-Propylamine	ug/kg	<330	<330
Hexachloroethane	ug/kg	<330	
Nitrobenzene	ug/kg	<330	<330
Isophorone	ug/kg		<330
2-Nitrophenol	ug/kg	<330	<330
2,4-Dimethylphenol	ug/kg	<330	<330
bis(2-Chloroethoxy)Methane	ug/kg	<330	<330
2,4-Dichlorophenol	ug/kg	<330	<330
1,2,4-Trichlorobenzene	ug/kg	<330	<330
Napthalene	ug/kg	<330	<330
4-Chloroaniline	ug/kg	<330	<330
Hexachlorobutadiene	ug/kg	<330	<330
4-Chloro-3-Methylphenol	ug/kg	<330	<330
2-Methylnapthalene	ug/kg	<330	<330
Hexachlorocyclopentadiene	ug/kg	<330	<330
2,4,6-Trichlorophenol	ug/kg	<330	<330
2,4,5-Trichlorophenol	ug/kg	<1600	<1600
2-Chloronapthalene	ug/kg	<330	<330
2-Nitroaniline	ug/kg	<1600	<1600
Dimethyl Phthalate	ug/kg	<330	<330
Acenaphthylene	ug/kg	<330	<330
2,6-Dinitrotoluene	ug/kg	<330	<330
3-Nitroaniline	ug/kg	<1600	<1600
Acenaphthene	ug/kg	<330	<330
2,4-Dinitrophenol	ug/kg	<1600	< 1600
4-Nitrophenol	ug/kg	<1600	<1600
Dibenzofuran	ug/kg	<330	<330
2,4-Dinitrotoluene	ug/kg	<330	<330
Diethylphthalate	ug/kg	<330	<330
4-Chlorophenyl-phenylether	ug/kg	<330	<330
Flourene	ug/kg	<330	<330
4-Nitroaniline	ug/kg	<1600	<1600
4,6-Dinitro-2-Methylphenol	ug/kg	< 1600	<1600
N-Nitrosodiphenylamine	ug/kg	<330	<330
4-Bromophenyl-phyenylether	ug/kg	<330	<330
Hexachlorobenzene	ug/kg	<330	<330
Pentachlorphenol	ug/kg	<1600	<1600
Phenanthrene	ug/kg	<330	<330
Anthracene	ug/kg	<330	<330
Carbazole	ug/kg	<330	<330
Di-n-Butylphthalate	ug/kg	<330	<330

ANALYTICAL RESULTS FOR FIELD BLANKS POL Storage Area Ellington Field (ANGRC)

Parameter	Sample ID	02FB01AA	02FB02AA
Fluoranthene	ug/kg	<330	<330
Pyrene	ug/kg	<330	<330
Butylbenzylphthalate	ug/kg	<330	<330
3,3-Dichlorobenzadine	ug/kg	<330	<330
Benzo(a)Anthracene	ug/kg	<330	<330
Chrysene	ug/kg	<330	<330
bis(2-Ethylhexyl)Phthalate	ug/kg	<330	<330
Di-n-Octyl Phthalate	ug/kg	<330	<330
Benzo(b)Fluoranthene	ug/kg	<330	<330
Benzo(k)Fluoranthene	ug/kg	<330	<330
Indeno(1,2,3-cd)Pyrene	ug/kg	<330	<330
Dibenzo(a,h)Anthracene	ug/kg	<330	<330
Benzo(g,h,i)Perylene	ug/kg	<330	<330

If field is left blank, the qualifier is A - Accept all data

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT TPH DATA PACKAGE ELL1, PKG1

PACE, INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 2, 1993

CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG1 MATRIX: SOIL

- 1. This data package covers water samples received from August 5 to August 11. Refer to the enclosed list of samples and corresponding client identifications.
- 2. The samples were analyzed according to the EPA method 418.1 and reported on a dry weight basis.
- 3. The data was reported via the PACE, INC. LIMS system, which includes all the QA/QC data requirments for Level C HAZWRAP protocols.

ELLINGTON AFB TRACKING CHART

CASE I.D.: ELL1

SDG: PKG1 MATRIX: SOIL

PACE NUMBER	CLIENT I.D.	DATE SXD	DATE RCVD	PERCENT MOISTURE	ANALYSES REQUIRED
TTO 45005	02 GD21 A A	0/5	8/5	26	BTEX, TPH
H245825	02-SB21-A-A	8/5	6/3	26	DIEA, IIII
H245826	02-SB21-A-A MS				
H245827	02-SB21-A-A MSD			27	
H245828	02-SB21-B-A			28	
H245829	02-FD21-B-A		ļ	28 -	
H245830	02-SB21-C-A			19	
H245831	02-SB16-A-A			25	
H245832	02-SB16-C-A			19	
H245833	02-SB20-A-A			24	
H245834	02-SB20-C-A			18	
H246033	02-SB18-A-A	8/6	8/6	20	
H246034	02-SB18-C-A			19	
H246035	02-SB17-A-A	İ	İ	26	
H246036	02-SB17-B-A		İ	28	
H246037	02-SB17-C-A		İ	20	
H246699	02-SB19-B-A	8/11	8/11	26	
H246700	02-SB19-C-A			21	
H246701	02-SB23-A-A	İ		6.3	•
H246702	02-SB23-B-A	İ	İ	28	
H246703	02-SB23-C-A		İ	17	
H246704	02-FD23-C-A		İ	15	
H246705	02-SB22-A-A		İ	27	
H246706	02-SB22-B-A	İ	İ	28	
H246707	02-SB22-C-A			20	



September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-A-A

LSG SAMPLE NO: H0245825

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY:

D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNIT
1	G107S	BTEX Package Level C BTEX data package	Done	
2	1685s	Petroleum Hydrocarbons	< 27	mg/kg
3	1800	CLP - percent moisture	26	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

Case: ELL1; SDG: PKG1 consists of PACE sample numbers: H245825 - H245834; H246033 - H246037; H246699 - H246707

The initial calibration verification (ICV) for TPH is as follows:

Date/Time run: 8/17/93 1607; Percent Recovery = 104%. The continuing calibrations (CCV) for TPH are as follows:

Date/Time run Percent Recovery

8/17/93 1631 114% 8/18/93 0951 117% 8/18/93 0958 117%



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-A-A MS

LSG SAMPLE NO: H0245826

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

APPROVED BY: D Meyer

DATE RECEIVED: 05-AUG-93

TEST

LN CODE

DETERMINATION

RESULT

UNITS

mg/kg

1 G107S

BTEX Package

Level C BTEX data package

Done

1685S 2

Petroleum Hydrocarbons

500 26

1800 CLP - percent moisture 3 CLP Data Package Deliverable DPACK

Done

COMMENTS: % Recovery Petroleum Hydrocarbons = 112.7 % .

Results reported on a dry weight basis.

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September 02, 1993

Report No.: 00026903

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-A-A MSD

LSG SAMPLE NO: H0245827

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

Done

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93 APPROVED BY: D Meyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
 1	G107s	BTEX Package		
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	480	mg/kg
3	1800	CLP - percent moisture	27	%

DPACK

COMMENTS: % Moisture Relative Percent Difference = 3.8 .

CLP Data Package Deliverable

Petroleum Hydrocarbons recovery = 106.9 %; RPD = 5.54 .

Results reported on a dry weight basis.

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September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-B-A

LSG SAMPLE NO: H0245828

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

,	LN	TEST CODE	DETERMINATION	RESULT	UNITS
	1	G107S	BTEX Package		
			Level C BTEX data package	Done	
	2	16858	Petroleum Hydrocarbons	49	mg/kg
	.3	1800	CLP - percent moisture	28	%
	4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001
PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FD21-B-A

LSG SAMPLE NO: H0245829

P.O. NO.: 1K94BC

DATE RECEIVED: 05-AUG-93

DATE SAMPLED: 05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	< 28	mg/kg
3	1800	CLP - percent moisture	28	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB21-C-A

LSG SAMPLE NO: H0245830

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001
PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

<u>L</u>	TES <u>N</u> COO		RESULT	UNITS
1	G10	7S BTEX Package	•	
		Level C BTEX data package	Done	
2	168	5S Petroleum Hydrocarbons	49	mg/kg
3	180	O CLP - percent moisture	19	%
4	DPA	CK CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

ATTENTION: MARK SPENCER

HOUSTON, TX 77210-4574

SAMPLE ID: 02-SB16-A-A

LSG SAMPLE NO: H0245831

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

 <u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
	-4070			
1	G107S	BTEX Package		
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	40	mg/kg
3	1800	CLP - percent moisture	25	% —
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB16-C-A

LSG SAMPLE NO: H0245832

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

 	TEST			
LN	CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package	-	
		Level C BTEX data package	Done	
2	1685S	Petroleum Hydrocarbons	37	mg/kg
3	1800	CLP - percent moisture	19	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-A-A

LSG SAMPLE NO: H0245833

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93 DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	39	mg/kg
3	1800	CLP - percent moisture	24	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-C-A

LSG SAMPLE NO: H0245834

P.O. NO.: 1K94BC

PACE PROJECT: H07180001

LSG CLIENT NO: 0718 0001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93 DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

TEST

LN CODE

DETERMINATION

RESULT

UNITS

G107S

16858

BTEX Package

Level C BTEX data package

Petroleum Hydrocarbons

3 1800 DPACK

2

CLP - percent moisture CLP Data Package Deliverable Done

36 mg/kg

%

18

Done

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574 ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-A-A

..LSG SAMPLE NO: H0246033

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

`	LN	TEST CODE	DETERMINATION	RESULT	UNITS
	1	G107S	BTEX Package		
			Level C BTEX data package	Done	
	2	16858	Petroleum Hydrocarbons	50	mg/kg
	3	1800	CLP - percent moisture	20	%
	4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-C-A

LSG SAMPLE NO: H0246034

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001 PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

 <u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107s	BTEX Package		
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	37	mg/kg
3	1800	CLP - percent moisture	19	*
- 4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB17-A-A

LSG SAMPLE NO: H0246035

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package		
		Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	54	mg/kg
3	1800	CLP - percent moisture	26	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB17-B-A DATE SAMPLED: 06-AUG-93

LSG SAMPLE NO: H0246036 DATE RECEIVED: 06-AUG-93

P.O. NO.: 1K94BC APPROVED BY: D Meyer

TEST CODE DETERMINATION RESULT UNITS G107S BTEX Package Level C BTEX data package Done 2 16858 Petroleum Hydrocarbons 42 mg/kg 3 1800 CLP - percent moisture 28 % DPACK CLP Data Package Deliverable Done

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB17-C-A

LSG SAMPLE NO: H0246037

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

ACE PROJECT: H07180001
PACE CLIENT: 620438

PACE CLIENT: 020430

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

 	TEST			
LN	CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package	•	
		Level C BTEX data package	Done	
2	1685S	Petroleum Hydrocarbons	38	mg/kg
3	1800	CLP - percent moisture	20	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574 HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB19-B-A

LSG SAMPLE NO: H0246699

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93 APPROVED BY: D Meyer

LN CODE

DETERMINATION

RESULT

1 G107S

BTEX Package

Level C BTEX data package

Petroleum Hydrocarbons

2 1685S _3 1800

DPACK

CLP - percent moisture CLP Data Package Deliverable Done

mg/kg

< 27 26

Done

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 02, 1993 Report No.: 00026903

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB19-C-A

LSG SAMPLE NO: H0246700

P.O. NO.: 1K94BC

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

11-AUG-93

DATE RECEIVED: APPROVED BY: D Meyer

<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package		
		Level C BTEX data package	Done	
2	1685s	Petroleum Hydrocarbons	< 25	mg/kg
3	1800	CLP - percent moisture	21	×
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB23-B-A

LSG SAMPLE NO: H0246702

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

APPROVED BY:

< 28

Done

28

DATE RECEIVED: 11-AUG-93

D Meyer

mg/kg

TEST

LN CODE DETERMINATION RESULT UNITS

1 G107S BTEX Package
Level C BTEX data package Done

2 1685S Petroleum Hydrocarbons
3 1800 CLP - percent moisture
4 DPACK CLP Data Package Deliverable

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 02, 1993

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FD23-C-A

LSG SAMPLE NO: H0246704 P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

DATE RECEIVED:

11-AUG-93

APPROVED BY:

D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	BTEX Package	Done	
_	- 405 -	Level C BTEX data package	< 24	mg/kg
2	16858	Petroleum Hydrocarbons .		
3	1800	CLP - percent moisture	15	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB22-A-A

LSG SAMPLE NO: H0246705

P.O. NO.: 1K94BC

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

!	LN	TEST CODE	DETERMINATION	RESULT	UNITS
	1	G107S	BTEX Package		
			Level C BTEX data package	Done	
	2	1685S	Petroleum Hydrocarbons	< 27	mg/kg
	3	1800	CLP - percent moisture	27	%
4	4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB22-B-A

LSG SAMPLE NO: H0246706

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

<u>LI</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	G107S	8TEX Package		
'	61075	Level C BTEX data package	Done	
2	16858	Petroleum Hydrocarbons	< 28	mg/kg
3	1800	CLP - percent moisture	28	%
4	DPACK	CLP Data Package Deliverable	Done	

COMMENTS: Results reported on a dry weight basis.

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB22-C-A

LSG SAMPLE NO: H0246707

P.O. NO.: 1K94BC

DATE RECEIVED: 11-AUG-93

DATE SAMPLED: 11-AUG-93

APPROVED BY: D Meyer

TEST UNITS RESULT LN CODE DETERMINATION G107S BTEX Package 1 Done Level C BTEX data package 38 mg/kg 2 1685S Petroleum Hydrocarbons 20 % _ 3 1800 CLP - percent moisture Done DPACK CLP Data Package Deliverable

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-	SMHPLE	PREPARATION	LR-	SAN	LL AMA	ANLS	
N	CODE	BATCH	METHOD	DATE/TIME	ANALYST	_	DATE/TIME	ANALYS	T BATCH	INSTRUMENT
-										
м	PIF ID:	02-SB2	1-A-A				LSG SAMPLE	NO: H	0245825	
11.0	LL 10.	0L 05L								
	G107S	33042	NA			19-8020	11-AUG-93 1940	DFF	0	7287GC
	16858	33171	19-3550	i		02-418.1	17-AUG-93 1608	LJH	0	302WAT
	1800	33124	NA			20-D21sV	16-AUG-93 2200		0	004WAT
	DPACK	0	NA				02-SEP-93 1700	SLG	0	
	Metho	d Litera	ture Refe	erence			-			
	EPA-M	ethods f	or Chemic	cal Analysis	of Water & Wastes	, 1984.				
	EPA-T	est Meth	ods for E	Evaluating Sc	olid Waste, 3rd ed	, Nov. 1986				
	USEPA	CLP SOW	for Orga	anic Analysis	s, Multi-Conc., Re	v. 2/88				
M	PLE ID:	02-SB2	1-A-A MS				LSG SAMPLE	NO: H	0245826	
	G107s	33042	NA			19-8020	11-AUG-93 2016	DFF	0	7287GC
	1685s	33171	19-3550	1		02-418.1	17-AUG-93 1609	LJH	0	302WAT
	1800	33124	NA			20-D21sV	16-AUG-93 2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93 1700	SLG	0	
	Metho	d Litera	ture Refe	erence						
					of Water & Wastes	, 1984.				
	EPA-T	est Meth	ods for E	Evaluating Sc	olid Waste, 3rd ed	, Nov. 1986				
	USEPA	CLP SOW	for Orga	anic Analysis	s, Multi-Conc., Re	v. 2/88				
		02-SB2	1-A-A MSE	D			LSG SAMPLE	NO: H	0245827	
	PLE ID:					40, 0030	11-AUG-93 2052	DEF	0	7287GC
	PLE ID: G107S	33042	NA			19-8020	11-MUG-93 2032	011	•	
			NA 19-3550				17-AUG-93 2032		Ō	302WAT
	G107S					02-418.1		LJH	_	

EPA-Methods for Chemical Analysis of Water & Wastes, 1984.

TEL: 713-488-1810 FAX: 713-488-4661



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

----- SAMPLE PREPARATION ------ SAMPLE ANALYSIS ------LR-PREP LR-METHOD DATE/TIME ANALYST BATCH INSTRUMENT LN CODE BATCH METHOD DATE/TIME ANALYST LR Method Literature Reference 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0245828 SAMPLE ID: 02-SB21-B-A 7287GC G107S 33042 NA 19-8020 09-AUG-93 1645 DFF 0 02-418.1 17-AUG-93 1613 LJH **302WAT** 1685s 33171 19-3550 20-D21SV 16-AUG-93 2200 JB 004WAT 1800 33124 NA 02-SEP-93 1700 SLG DPACK 0 NA Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0245829 SAMPLE ID: 02-FD21-8-A 19-8020 09-AUG-93 1721 DFF 7287GC G107S 33042 NA 02-418.1 17-AUG-93 1615 LJH 0 **302WAT** 1685s 33171 19-3550 **004WAT** 20-D21SV 16-AUG-93 2200 JB 1800 33124 NA 02-SEP-93 1700 SLG DPACK 0 Method Literature Reference 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984. 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

SAMPLE ID: 02-SB21-C-A

LSG SAMPLE NO: H0245830



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-	JAN EL F	PREPARATION	LR-		5741		ANLS	
į	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANALYST	BATCH	INSTRUMEN
•	G107S	33042	NA			19-8020	09-AUG-93	1758	DFF	0	7287GC
		33171	19-3550			02-418.1	17-AUG-93	1617	LJH	0	302WAT
	1800	33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93	1700	SLG	0	
2			ture Refe		•						
2					of Water & Wastes,						
•					lid Waste, 3rd ed,			-			
1	USEPA	CLP SOM	for Orga	anic Analysis,	, Multi-Conc., Rev.	. 2/88					
11	PLE ID:	02-SB1	6-A-A				LSG S	AMPLE	NO: HO	245831	
	G107S	33042	NA			19-8020	11-AUG-93	2205	DFF	0	7287GC
		33171	19-3550			02-418.1	17-AUG-93	1620	LJH	0	302WAT
		33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	1800						02-SEP-93	1700	SLC	O	
	DPACK	0	NA T				02-3EF-93	1700	320	•	
	DPACK	d Litera	iture Refe				UZ-SEF-93	1700	320	J	
2	DPACK Metho	d Litera ethods f	iture Refe	cal Analysis o	of Water & Wastes,			1700	324	J	
2	Metho EPA-M EPA-T	d Litera ethods f	iture Refe for Chemic mods for E	cal Analysis o Evaluating Sol	lid Waste, 3rd ed,	Nov. 1986		1700	320	•	
9	Metho EPA-M EPA-T	d Litera ethods f	iture Refe for Chemic mods for E	cal Analysis o Evaluating Sol		Nov. 1986	U2-3EF-93	1700	320	•	
R 2 9 0	Metho EPA-M EPA-T USEPA	d Litera ethods f	oture Refe for Chemic mods for E I for Orga	cal Analysis o Evaluating Sol	lid Waste, 3rd ed,	Nov. 1986			NO: H0		
2	Metho EPA-M EPA-T USEPA	d Litera ethods f est Meth CLP SOW	oture Refe for Chemic mods for E I for Orga	cal Analysis o Evaluating Sol	lid Waste, 3rd ed,	Nov. 1986 . 2/88		AMPLE	NO: H0		7287GC
)	Metho EPA-M EPA-T USEPA PLE ID:	d Litera ethods f est Meth CLP SOW	oture Refe for Chemic hods for E for Orga 6-C-A	cal Analysis of Evaluating Solanic Analysis,	lid Waste, 3rd ed,	Nov. 1986 . 2/88 . 19-8020	LSG S	AMPLE	NO: HO	245832	7287GC 302WAT
2	Metho EPA-M EPA-T USEPA PLE ID:	d Litera ethods f est Meth CLP SOW 02-SB1	oture Refe for Chemic lods for E I for Orga 6-C-A	cal Analysis of Evaluating Solanic Analysis,	lid Waste, 3rd ed,	19-8020 02-418.1	LSG S.	AMPLE 1910 1622	NO: HO	245832	

19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

----- SAMPLE PREPARATION ------ SAMPLE ANALYSIS -----ANLS LR-ANALYST BATCH INSTRUMENT METHOD DATE/TIME LN CODE BATCH METHOD DATE/TIME Method Literature Reference 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0245833 SAMPLE ID: 02-SB20-A-A G107S 33042 NΔ 19-8020 11-AUG-93 2041 DFF 7287GC 1 02-418.1 17-AUG-93 1623 LJH 0 **302WAT** 1685S 33171 19-3550 004WAT 20-D21SV 16-AUG-93 2200 JB 0 1800 33124 NA 02-SEP-93 1700 SLG 0 DPACK 0 Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 19 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0245834 SAMPLE ID: 02-SB20-C-A 7287GC 19-8020 09-AUG-93 2023 DFF G107S 33042 NA 02-418.1 12-AUG-93 500 LJH **302WAT** 2 1685S 33171 19-3550 004WAT 20-D21SV 16-AUG-93 2200 JB Ω 1800 33124 NA 02-SEP-93 1700 SLG 0 DPACK 0 Method Literature Reference 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984. 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0246033 SAMPLE ID: 02-SB18-A-A 7287GC 1 G107S 33042 NA 19-8020 09-AUG-93 2248 DFF 0



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

TEST	PREP	LR-	SAMPLE PR	EPARATION	LR-		SAM	PLE A	NALYSIS ANLS	
CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	E	ANAL	YST BATCH	INSTRUME
1685s	33171	19-3550			02-418.1	17-AUG-93	3 1627	LJH	0	302WAT
1800	33124	NA			20-D21SV	16-AUG-93	3 2200	JB	0	004WAT
DPACK	0	NA				02-SEP-93	3 1700	SLG	0	
Meth	od Litera	ature Refe	erence							
EPA-I	lethods 1	for Chemic	cal Analysis of	Water & Wastes,	1984.					
EPA-	lest Meti	hods for E	Evaluating Soli	d Waste, 3rd ed, 1	Nov. 1986					
USEP	CLP SOL	√ for Orga	anic Analysis,	Multi-Conc., Rev.	2/88					
MPLE ID:	: 02-SB	18-C-A				LSG S	SAMPLE	NO:	H0246034	
G107S	33042	NA				09-AUG-93			0	7287GC
16858	33171	19-3550				17-AUG-93			0	302WAT
1800	33124	NA			20-D21sV	16-AUG-93	3 2200	JB	0	004WAT
DPACK	0	NA				02-SEP-93	3 1700	SLG	0	
		ature Refe								
			•	Water & Wastes,						
			_	d Waste, 3rd ed, N						
USEP	CLP SOL	d for Orga	anic Analysis,	Multi-Conc., Rev.	2/88					
MPLE ID	: 02-SB	17-A-A		•		LSG S	SAMPLE	NO:	H0246035	
G107S	33042	NA			19-8020	10-AUG-93	3 1	DFF	0	7287GC
16858	33171	19-3550			02-418.1	17-AUG-93	1632	LJH	0	302WAT
1800	33124	NA			20-D21SV	16-AUG-93	3 2200	JB	0	004WAT
DPACK	0	NA		•		02-SEP-93	1700	SLG	0	
		ature Refe								
			•	Water & Wastes,						
EPA-	lest Meti	nods for E	Evaluating Soli	d Waste, 3rd ed, A	Nov. 1986					

USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

20



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-			LR-			ANLS	
.N	TEST CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANAL	YST BATCH	INSTRUMENT
		02.004	7.0.4				LSG SAMPLE	. NO-	HU574V24	
AM	PLE ID:	02-SB1	17-8-A				L3G SAMPLE	. NO.	110240030	
	G107S	33042	NA			19-8020	11-AUG-93 2317	DFF	0	7287GC
	16858	33171	19-3550			02-418.1	17-AUG-93 1634	LJH	0	302WAT
	1800	33124	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93 1700	SLG	0	
R	Metho	d Litera	ture Refe	erence				•		
2	EPA-M	ethods 1	or Chemic	cal Analysis o	of Water & Wastes,	1984.				
9	EPA-T	est Meth	ods for E	Evaluating Sol	id Waste, 3rd ed,	Nov. 1986				
0	USEPA	CLP SOL	for Orga	anic Analysis,	Multi-Conc., Rev.	2/88				
						_,				
	PLE ID:	02-SB1	17-C-A		, nater conce, nore	-,	LSG SAMPLE	NO:	H0246037	
AM			17-C-A		,		LSG SAMPLE		H0246037	7287GC
AM	G107S	33042			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19-8020		DFF	0	7287GC 302WAT
AM		33042	NA .		, , , , , , , , , , , , , , , , , , , ,	19-8020 02-418.1	10-AUG-93 114	DFF 5 LJH	0	
AM	G107\$	33042 33171 33124	NA 19-3550		,	19-8020 02-418.1	10-AUG-93 114 17-AUG-93 1636	DFF 5 LJH 9 JB	0 0	302WAT
AM	G107S 1685S 1800 DPACK	33042 33171 33124 0	NA 19-3550 NA	erence	•	19-8020 02-418.1	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200	DFF 5 LJH 9 JB	0 0 0	302WAT
AM R	G107S I685S I800 DPACK	33042 33171 33124 0	NA 19-3550 NA NA		of Water & Wastes,	19-8020 02-418.1 20-D21SV	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200	DFF 5 LJH 9 JB	0 0 0	302WAT
<u>R</u> 2	G107S I685S I800 DPACK Metho EPA-M	33042 33171 33124 0 d Litera ethods 1 est Meth	NA 19-3550 NA NA sture Refe for Chemic	cal Analysis o Evaluating Sol	of Water & Wastes, id Waste, 3rd ed,	19-8020 02-418.1 20-D21SV 1984. Nov. 1986	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200	DFF 5 LJH 9 JB	0 0 0	302WAT
	G107S I685S I800 DPACK Metho EPA-M	33042 33171 33124 0 d Litera ethods 1 est Meth	NA 19-3550 NA NA sture Refe for Chemic	cal Analysis o Evaluating Sol	of Water & Wastes,	19-8020 02-418.1 20-D21SV 1984. Nov. 1986	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200	DFF 5 LJH 9 JB	0 0 0	302WAT
R 2 9 0	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA	33042 33171 33124 0 d Litera ethods 1 est Meth	NA 19-3550 NA NA eture Refe for Chemic nods for E	cal Analysis o Evaluating Sol	of Water & Wastes, id Waste, 3rd ed,	19-8020 02-418.1 20-D21SV 1984. Nov. 1986	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200	DFF 6 LJH 9 JB 9 SLG	0 0 0	302WAT
R 2 9 0	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA	33042 33171 33124 0 d <u>Litera</u> ethods 1 est Meth CLP SOW	NA 19-3550 NA NA eture Refe for Chemic nods for E	cal Analysis o Evaluating Sol	of Water & Wastes, id Waste, 3rd ed,	19-8020 02-418.1 20-D21sV 1984. Nov. 1986 2/88	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200 02-SEP-93 1700	DFF 5 LJH 9 JB 9 SLG	0 0 0	302WAT
R 2 9 0	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA	33042 33171 33124 0 d Litera ethods 1 est Meth CLP SOW 02-SB1	NA 19-3550 NA NA eture Refe for Chemic nods for E for Orga	cal Analysis o Evaluating Sol	of Water & Wastes, id Waste, 3rd ed,	19-8020 02-418.1 20-D21sv 1984. Nov. 1986 2/88	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200 02-SEP-93 1700	DFF S LJH DJB SLG NO:	0 0 0 0 H0246699	302WAT 004WAT
R 2 9 0	G107S I685S I800 DPACK Metho EPA-M EPA-T USEPA PLE ID: G107S	33042 33171 33124 0 d Litera ethods 1 est Meth CLP SOW 02-SB1	NA 19-3550 NA NA eture Refe for Chemic nods for E for Orga	cal Analysis o Evaluating Sol	of Water & Wastes, id Waste, 3rd ed,	19-8020 02-418.1 20-D21sV 1984. Nov. 1986 2/88	10-AUG-93 114 17-AUG-93 1636 16-AUG-93 2200 02-SEP-93 1700 LSG SAMPLE	DFF 5 LJH 9 SLG NO:	0 0 0 0 H0246699	302WAT 004WAT

LR Method Literature Reference

02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

----- SAMPLE PREPARATION ------ ----- SAMPLE ANALYSIS ------LR-PREP METHOD DATE/TIME ANALYST BATCH INSTRUMENT LN CODE BATCH METHOD DATE/TIME ANALYST LR Method Literature Reference 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0246700 SAMPLE ID: 02-SB19-C-A 19-8020 12-AUG-93 1656 DFF 7287GC G107S 33063 302WAT 02-418.1 17-AUG-93 1646 LJH 1685s 33171 19-3550 004WAT 20-D21SV 16-AUG-93 2200 JB 1800 33125 NA 02-SEP-93 1700 SLG DPACK 0 LR Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88 LSG SAMPLE NO: H0246701 SAMPLE ID: 02-SB23-A-A 19-8020 12-AUG-93 1732 DFF O 7287GC G107S 33063 302WAT 02-418.1 18-AUG-93 930 LJH 0 1685s 33171 19-3550 004WAT 20-D21SV 16-AUG-93 2200 JB 0 3 1800 33125 NA 02-SEP-93 1700 SLG 0 DPACK 0 Method Literature Reference EPA-Methods for Chemical Analysis of Water & Wastes, 1984. EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

SAMPLE ID: 02-SB23-B-A

LSG SAMPLE NO: H0246702



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

	TEST	PREP	LR-			LR-				ANLS	
N	CODE	BATCH		DATE/TIME	ANALYST	METHOD	DATE/TIME		ANALYS	T BATCH	INSTRUMEN
-	G1.07S	33111	NA			19-8020	12-AUG-93	1845	DFF	0	7287GC
	1685S	33171	19-3550			02-418.1	18-AUG-93	932	LJH	0	302WAT
	1800	33125	NA		•	20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93	1700	SLG	0	
	Metho	d Litera	ture Refe	erence							
	EPA-M	ethods f	or Chemic	cal Analysis o	f Water & Wastes,	1984.					
				-	id Waste, 3rd ed,						
	USEPA	CLP SOW	for Orga	anic Analysis,	Multi-Conc., Rev	. 2/88					
М	PLE ID:	02-SB2	3-C-A				LSG S	AMPLE	NO: H	0246703	
	G107S	33063	NA			19-8020	12-AUG-93	1921	DFF	0	7287GC
	1685s	33171	19-3550			02-418.1	18-AUG-93	936	LJH	0	302WAT
	1800	33125	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				02-SEP-93	1700	SLG	0	
			ture Refe								
					f Water & Wastes,						
					id Waste, 3rd ed,						
	USEPA	CLP SOW	for Orga	anic Analysis,	Multi-Conc., Rev	2/88					
M	PLE ID:	02-FD2	3-C-A				LSG S	AMPLE	NO: HO	0246704	
	G107S	33063	NA			19-8020	12-AUG-93	1921	DFF	0	7287GC
	16858	33171	19-3550			02-418.1	18-AUG-93	947	LJH	0	302WAT
	1800	33125	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK		NA				02-SEP-93	4700		0	

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986



19-8020 13-AUG-93 1621 DFF

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

TEST			SAMPLE P	REPARATION		SAMF		ANLS	
CODE		LR-	DATE/TIME	ANALYST	LR-	DATE/TIME	ANAL		INSTRUMENT
Meth	od Litera	ature Ref	erence						
USEP	CLP SO	⊌ for Orga	anic Analysis,	Multi-Conc., Rev.	2/88				
MPLE ID	: 02-SB	22-A-A				LSG SAMPLE	NO:	H0246705	
G107S	33112	NA			19-8020	13-AUG-93 1509	DFF	0	7287GC
16858	33171	19-3550			02-418.1	18-AUG-93 950	LJH	0	302WAT
1800	33125	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
DPACK	0	NA				02-SEP-93 1700	SLG	0	
Meth	nd Liter:	ature Refe	erence						
				of Water & Wastes, 19	984.				
			•	id Waste, 3rd ed, No					
EPA-					74. 1700				
			_	Multi-Conc., Rev.					
USEP		√ for Orga	_			LSG SAMPLE	NO:	но246706	
USEP	CLP SO	√ for Orga	_		2/88	LSG SAMPLE			7287GC
USEPA IPLE ID G107S	CLP SOL	J for Orga 22-B-A	_		2/88 19-8020		DFF	0	7287GC 302WAT
USEPA PLE ID G107S I685S	4 CLP SON : 02-SB2 33112	J for Orga 22-B-A NA	_	Multi-Conc., Rev.	2/88 19-8020 02-418.1	13-AUG-93 1545	DFF LJH	0 0	
USEPA MPLE ID G107S I685S I800	33112 33171	J for Orga 22-B-A NA 19-3550	_	Multi-Conc., Rev.	2/88 19-8020 02-418.1	13-AUG-93 1545 18-AUG-93 953	DFF LJH JB	0 0	302WAT
USEPA IPLE ID G107S I685S I800 DPACK	33112 33125 0	M for Orga 22-B-A NA 19-3550 NA NA	anic Analysis,	Multi-Conc., Rev.	2/88 19-8020 02-418.1	13-AUG-93 1545 18-AUG-93 953 16-AUG-93 2200	DFF LJH JB	0 0 0	302WAT
USEPA PLE ID G107S I685S I800 DPACK	33112 33171 33125 0	W for Organization of the NA 19-3550 NA NA NA NA NA NA NA NA NA NA NA NA NA	anic Analysis,	Multi-Conc., Rev.	2/88 19-8020 02-418.1 20-D21sV	13-AUG-93 1545 18-AUG-93 953 16-AUG-93 2200	DFF LJH JB	0 0 0	302WAT
USEPA-	33112 33171 33125 0 od Litera	W for Orga 22-B-A NA 19-3550 NA NA ature Refe	erence cal Analysis o	Multi-Conc., Rev.	2/88 19-8020 02-418.1 20-D21sv	13-AUG-93 1545 18-AUG-93 953 16-AUG-93 2200	DFF LJH JB	0 0 0	302WAT
USEPA G107S I685S I800 DPACK Methor EPA-I	33112 33171 33125 0 od Litera Methods 1	W for Organization of the NA 19-3550 NA NA enture References for E	<u>erence</u> cal Analysis o Evaluating Sol	Multi-Conc., Rev.	19-8020 02-418.1 20-D21sv	13-AUG-93 1545 18-AUG-93 953 16-AUG-93 2200	DFF LJH JB	0 0 0	302WAT
USEP/ PLE ID G107S 1685S 1800 DPACK Meth EPA-I EPA-USEP/	33112 33171 33125 0 od Litera Methods 1	W for Organization of the NA NA NA NA NA NA NA NA NA NA NA NA NA	<u>erence</u> cal Analysis o Evaluating Sol	Multi-Conc., Rev. of Water & Wastes, 19 id Waste, 3rd ed, No	19-8020 02-418.1 20-D21sv	13-AUG-93 1545 18-AUG-93 953 16-AUG-93 2200	DFF LJH JB SLG	0 0 0	302WAT
USEPA G107S I685S I800 DPACK Methor EPA-1 USEPA	33112 33171 33125 0 od Litera Methods 1	W for Organization of the NA NA NA NA NA NA NA NA NA NA NA NA NA	<u>erence</u> cal Analysis o Evaluating Sol	Multi-Conc., Rev. of Water & Wastes, 19 id Waste, 3rd ed, No	19-8020 02-418.1 20-D21sv	13-AUG-93 1545 18-AUG-93 953 16-AUG-93 2200 02-SEP-93 1700	DFF LJH JB SLG	0 0 0	302WAT

1 G107S 33112 NA

7287GC



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE	PREPARATION -				SAM	PLE ANALY	SIS	
	TEST	PREP	LR-				LR-				ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST	1	METHOD	DATE/TIME		ANALYST	BATCH	INSTRUMENT
2	1685s	33171	19-3550			1	02-418.1	18-AUG-93	955	LJH	0	302WAT
3	1800	33125	NA				20-D21SV	16-AUG-93	2200	JB	0	004WAT
4	DPACK	0	NA					02-SEP-93	1700	SLG	0	

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986
- 20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



1685S Petroleum Hydrocarbons

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL REPORT LABORATORY CONTROL SAMPLE RECOVERY

PERCENT ACCEPTANCE TEST RECOVERY CODE DETERMINATION LSG SAMPLE NO: H0247658 BATCH: 33042 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: HO247692 BATCH: 33063 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: H0247774 BATCH: 33111 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: H0247776 BATCH: 33112 SAMPLE ID: Lab Control Sample G107S BTEX Package Done Level C BTEX data package LSG SAMPLE NO: H0247864 BATCH: 33171 SAMPLE ID: Lab Control Sample 103.6 1685\$ Petroleum Hydrocarbons LSG SAMPLE NO: H0249222 BATCH: 33386 SAMPLE ID: Lab Control Sample

91.0



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QUALITY CONTROL REPORT METHOD BLANK DATA

	TEST CODE Determination	RESULT	UNITS
BATCH: 33041	SAMPLE ID: Method Blank	LSG SAMPLE	NO: H0247657
	OSTSC TCL - BNA + CLP Data Package - Soil Data Package - BNA	Done	ug/kg
BATCH: 33042	SAMPLE ID: Method Blank	LSG SAMPLE	NO: H0247659
	G107S BTEX Package Level C BTEX data package	Done	
BATCH: 33063	SAMPLE ID: Method Blank	LSG SAMPLE	NO: H0247693
	G107S BTEX Package Level C BTEX data package	Done	
BATCH: 33111	SAMPLE ID: Method Blank	LSG SAMPLE	NO: H0247775
	G107S BTEX Package Level C BTEX data package	Done	
BATCH: 33112	SAMPLE ID: Method Blank	LSG SAMPLE	NO: H0247777
	G107S BTEX Package Level C BTEX data package	Done	
BATCH: 33124	SAMPLE ID: Method Blank .	LSG SAMPLE	NO: H0247792
	I800 CLP - percent moisture	< 0.1	%
BATCH: 33125	SAMPLE ID: Method Blank		NO: H0247793
	1800 CLP - percent moisture	< 0.1	% NO: H0247865
BATCH: 33171	SAMPLE ID: Method Blank	< 20	mg/kg
BATCH: 33386	I685S Petroleum Hydrocarbons SAMPLE ID: Method Blank		NO: H0249223
2	1685S Petroleum Hydrocarbons	< 20	mg/kg

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT BTEX DATA PACKAGE ELL1, PKG1

PACE, INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 2, 1993

CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG1 MATRIX: SOIL

- 1. This data package covers water samples received from August 5 to August 11. Refer to the enclosed list of samples and corresponding client identifications.
- 2. The samples were analyzed by the SW-846 GC method 8020 for BTEX.
- 3. See enclosed list of flag descriptions.
- 4. The data was reduced and input manually onto computer generated forms to simulate a CLP-type package for BTEX per the client's request. The results are reported on a dry weight basis and provide data as required under the Level C HAZWRAP protocols.
- 5. The primary analyses for BTEX was performed on a RTX-502.2 (0.53 mm) capillary column. The secondary column was packed column 5% SP-1200/1.75% Bentone 34 (1/8 in). All positive hits were reported from the primary column analyses.
- 6. Samples failing surrogate recovery limits were reanalyzed on the primary column to confirm matrix interference. These outliers were indicated on Form 2. There were two exceptions:
 1) Sample 02SB21BA/H245828 was not run twice due to analyst oversight; 2) Sample 02SB23BA/H246702 was not rerun on the primary column, but was run on the secondary column to confirm matrix interference with the surrogate TFT (alpha, alpha, alpha-Trifluorotoluene).
- 7. On Form 3, the matrix spike and matrix spike duplicate anomalies are indicated. These anomalies do not effect the validity of the sample data. The recovery amounts recorded on Form 3 were corrected for amounts present in the original sample.
- 8. The continuing calibration standards analyzed on 08/10/93 at 0226 and 08/12/93 at 0655 were not associated with any sample analyses and were followed by new five-point calibrations.

ELLINGTON AFB TRACKING CHART

CASE I.D.: ELL1 SDG: PKG1 MATRIX: SOIL

PACE NUMBER	CLIENT I.D.	DATE SXD	DATE RCVD	PERCENT MOISTURE	ANALYSES REQUIRED
H245825		8/5	8/5	26	BTEX, TPH
H245826	02-SB21-A-A MS			26	
H245827	02-SB21-A-A MSD			27	
H245828	02-SB21-B-A			28	
H245829	02-FD21-B-A		Ì	28	
H245830	02-SB21-C-A			19	
H245831	02-SB16-A-A			25	
H245832	02-SB16-C-A	İ		19	
H245833	02-SB20-A-A	İ	İ	24	
H245834	02-SB20-C-A			18	
H246033	02-SB18-A-A	8/6	8/6	20	
H246034	02-SB18-C-A			19	
H246035	02-SB17-A-A		İ	26	
H246036	02-SB17-B-A	İ	j	28	
H246037	02-SB17-C-A		j	20	
H246699	02-SB19-B-A	8/11	8/11	26	
H246700	02-SB19-C-A	1		21	
H246701	02-SB23-A-A	İ	İ	6.3	
H246702	02-SB23-B-A	İ	İ	28	
H246703	02-SB23-C-A	İ	İ	17	
H246704	02-FD23-C-A	İ	j	15	
H246705	02-SB22-A-A	İ	İ	27	
H246706	02-SB22-B-A	İ	j	28	
H246707	02-SB22-C-A			20	

USEPA Contract Laboratory Program (CLP) Data Reporting Qualifiers

(from Statement of Work for Organics Analysis, Rev. 3/90)

- A This flag indicates that a TIC is a suspected aldol-condensation product.
- B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do <u>not</u> apply this flag; 'instead use a laboratory-defined flag, discussed below.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form 1. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, for example, a diluted analysis is not required for total xylenes unless the oncentration of either peak separately exceeds 200 ug/L.
- Indicates an estimate value. This flag is used either when stimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data ndicate the presence of a compound that meets the identification riteria but the result is less than the sample quantitation imit but greater than zero. For example, if the sample uantitation limit is 10 ug/L, but a concentration of 3 ug/L is alculated, report it as 3 J. The sample quantitation limit must e adjusted for dilution as discussed for the U flag.

- N Indicates the presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X.) The lower of the two values is reported on Form I and flagged with a "P."
- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$(330 \text{ U}) \times \text{df}$$
, where D = $100 - \frac{1}{2} \text{ moisture}$ and df = dilution factor

For example, at 24% moisture,
$$D = \frac{100 - 24}{100} = 0.76$$

$$(330 \text{ U}) \times 10 = 4300 \text{ U}$$
 rounded to the appropriate number of significant figures

For soil samples subjected to GPC cleanup procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the specified volume, this fact must be accounted for in reporting the sample quantitation limit.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X." If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample. The laboratory-defined flags are limited to the letters "X," "Y," and "Z."

The combination of flags "&U" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

CLIENT SAMPLE NO.

02FD21BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245829

Sample wt/vol: 5 (g/mL) g

Lab File ID: 013F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 28

Date Analyzed: 08/09/93

-GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND

Dilution Factor: 1.0

CAS NO.

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	U U U

CLIENT SAMPLE NO.

02FD23CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

Matrix: (soil/water) SOIL

SDG No.: PKG1

Lab Sample ID: H246704

Sample wt/vol: 5 (g/mL) g

Lab File ID: 013F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

Date Analyzed: 08/12/93

% Moisture: 15

Dilution Factor: 1.0

GC Column: RTX 502.2 ID: 0.53 (mm)

CAS NO.

CONCENTRATION UNITS:

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U
•		

0000018

1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB16AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245831

Sample wt/vol: 5 (g/mL) g

Lab File ID: 015F0101.D

Date Received: 08/05/93

Level: (low/med) LOW

Date Analyzed: 08/09/93

% Moisture: 25

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	33	
100-41-4Ethylbenzene	32	
1330-20-7Xylene (Total)	21	
•		

P000019

1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB16AARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245831RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 017F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	5.0 51 50	U
1330-20-7Xylene (Total)	61	

0000020

1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB16CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1 SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245832

Sample wt/vol: 5 (g/mL) g

Lab File ID: 016F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 19

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	บ
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U
•		

CLIENT SAMPLE NO.

02SB17AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246035

Sample wt/vol: 5 (g/mL) g

Lab File ID: 024F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 26

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 5.0 5.0	U U U
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CLIENT SAMPLE NO.

02SB17BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246036

Sample wt/vol: 5 (g/mL) g

Lab File ID: 0250101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 28

Date Analyzed: 08/10/93

Dilution Factor: 1.0

GC Column: RTX 502.2 ID: 0.53 (mm)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene_	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U

CLIENT SAMPLE NO.

02SB17BARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246036RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 019F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 28

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND

Dilution Factor: 1.0

CAS NO.

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	5.0 5.6 5.0	<u>u</u>
1330-20-7Xylene (Total)	5.0	U

CLIENT SAMPLE NO.

02SB17CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Lab Sample ID: H246037

Matrix: (soil/water) SOIL

Lab File ID: 026F0101.D

Sample wt/vol: 5 (g/mL) g

Date Received: 08/06/93

Level: (low/med) LOW

Date Analyzed: 08/10/93

% Moisture: 20

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 	U
---	---------	---

CLIENT SAMPLE NO.

02SB18AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246033

Sample wt/vol: 5 (g/mL) g

Lab File ID: 022F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 20

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U
•		

CLIENT SAMPLE NO.

02SB18CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

CAS NO.

Lab Sample ID: H246034

Sample wt/vol: 5 (g/mL) g

Lab File ID: 023F0101.D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 19

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53

COMPOUND

(mm) Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

7	1-43-2Benzene	5.0	บ
1	08-88-3Toluene	5.0	U
1	00-41-4Ethylbenzene	5.0	U
1:	330-20-7Xylene (Total)	5.0	บ

CLIENT SAMPLE NO.

02SB19BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246699

Sample wt/vol: 5 (g/mL) g

Lab File ID: 008F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 26

Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1330-20-7Xylene (Total)5.0 U

CLIENT SAMPLE NO.

02SB19CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246700

Sample wt/vol: 5 (g/mL) g

Lab File ID: 009F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 21

Date Analyzed: 08/12/93

-GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

0

1330-20-7Xylene (Total)5.0 U	71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U
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CLIENT SAMPLE NO.

02SB20AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON

Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245833

Sample wt/vol: 5 (g/mL) g

Lab File ID: 017F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 24

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (uq/L or uq/Kq) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 7.9 5.0	U U

CLIENT SAMPLE NO.

02SB20AARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL Lab Sample ID: H245833RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 018F0101.0

Level: (low/med) LOW Date Received: 08/05/93

% Moisture: 24 Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

71-43-2Benzene	5.0	ט
108-88-3Toluene	13	
100-41-4Ethylbenzene 1330-20-7Xylene (Total)	13	U
1550 20 / Myrelie (16cd1)	3.0	

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1E BTEX ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

02SB20CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245834

Sample wt/vol: 5 (g/mL) g Lab File ID: 018F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 18

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

		1
71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U
•		

CLIENT SAMPLE NO.

02SB21AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245825

Sample wt/vol: 5 (g/mL) g

Lab File ID: 008F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26

Date Analyzed: 08/09/93

_GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	8.8	
1330-20-7Xylene (Total)	5.0	U
-		

CLIENT SAMPLE NO.

02SB21AARE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245825RE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 013F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 26

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	U
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CLIENT SAMPLE NO.

02SB21BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Lab Sample ID: H245828

Sample wt/vol: 5 (g/mL) g

Lab File ID: 012F0101.D

Date Received: 08/05/93

% Moisture: 28

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

1330-20-7Xylene (Total) 5.0 U	71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	
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CLIENT SAMPLE NO.

02SB21CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245830

Sample wt/vol: 5 (g/mL) g Lab File ID: 014F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 19

Date Analyzed: 08/09/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U
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CLIENT SAMPLE NO.

02SB22AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

COMPOUND

Lab Sample ID: H246705

Sample wt/vol: 5 (g/mL) g Lab File ID: 006F0101.D

Date Received: 08/11/93

% Moisture: 27

Level: (low/med) LOW

Date Analyzed: 08/13/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene	5.0	U
100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0	Ū

CLIENT SAMPLE NO.

02SB22BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246706

Lab File ID: 007F0101.D

Sample wt/vol: 5 (g/mL) g

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 28

Date Analyzed: 08/13/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	U

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CLIENT SAMPLE NO.

02SB22CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246707

Lab File ID: 008F0101.D

Sample wt/vol: 5 (g/mL) g

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 20

Date Analyzed: 08/13/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	บบ บ
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CLIENT SAMPLE NO.

02SB23AA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246701

Sample wt/vol: 5 (g/mL) g

Lab File ID: 010F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 6.3

Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS: COMPOUND

CAS NO.

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0 5.0	U
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CLIENT SAMPLE NO.

02SB23BA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H246702

Sample wt/vol: 5 (g/mL) g

Lab File ID: 011F0101.D

Date Received: 08/11/93

% Moisture: 28

Level: (low/med) LOW

Date Analyzed: 08/12/93

_GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 5.0 16 5.0	U U
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CLIENT SAMPLE NO.

02SB23CA

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Lab Sample ID: H246703

Matrix: (soil/water) SOIL

Sample wt/vol: 5 (g/mL) g

Lab File ID: 012F0101.D

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 17

Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0 U
108-88-3Toluene	5.0 U
100-41-4Ethylbenzene	5.0 U
1330-20-7Xylene (Total)	5.0 U

BLANK SAMPLE NO.

VBLK1

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247659BLK

Sample wt/vol: 5 (g/mL) g

Lab File ID: 007F0101.D

Level: (low/med) LOW

Date Received: 08/09/93

Date Analyzed: 08/09/93

% Moisture: not dec.

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

0

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0	บ

BLANK SAMPLE NO.

VBLK2

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247626BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: 009F0101.D

Date Received: 08/11/93

Level: (low/med) LOW

Date Analyzed: 08/11/93

% Moisture: not dec.

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 5.0 5.0 5.0	U
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1E BTEX ORGANICS ANALYSIS DATA SHEET

BLANK SAMPLE NO.

VBLK4

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H247693BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: 004F0101.D

Level: (low/med) LOW

Date Received: 08/12/93

% Moisture: not dec.

Date Analyzed: 08/12/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U
•		

BLANK SAMPLE NO.

VBLK5

Lab Name: PACE, INC.

Contract: ELLINGTON

Matrix: (soil/water) SOIL

Lab Sample ID: H247777BLK

Sample wt/vol: 5 (g/mL) g

Lab File ID: 003F0101.D

SDG No.: PKG1

Level: (low/med) LOW

Date Received: 08/13/93

% Moisture: not dec.

Date Analyzed: 08/13/93

Lab Code: HOUSTON Case No.: ELL1

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylene (Total)	5.0 U
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1E BTEX ORGANICS ANALYSIS DATA SHEET

BLANK SAMPLE NO.

VBLK3

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

CAS NO.

Lab Sample ID: H247713BLK

Sample wt/vol: 5 (g/mL) g

Lab File ID: B048012

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/11/93

GC Column: SP1200 ID: 1/8 (in)

COMPOUND

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	5.0	U
108-88-3Toluene	5.0	U
100-41-4Ethylbenzene	5.0	U
1330-20-7Xylene (Total)	5.0	U

BLANK SAMPLE NO.

VBLK6

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Lab Sample ID: H247775BLK

Sample wt/vol: 5 (g/mL) g Lab File ID: B048009

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: SP1200 ID: 1/8 (in) Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene 5.0 U 108-88-3Toluene 5.0 U 109-41-4Ethylbenzene 5.0 U 1330-20-7Xylene (Total) 5.0 U 109-20-7	108-88-3Toluene 100-41-4Ethylbenzene	5.0 5.0	U U U
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MS SAMPLE NO.

02SB21AAMS

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245826MS

Sample wt/vol: 5 (g/mL) g

Lab File ID: 009F0101.D

Date Received: 08/05/93

Level: (low/med) LOW

Date Analyzed: 08/09/93

% Moisture: 26

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene	25 15 29	
1330-20-7Xylene (Total)	69	

= 00000**69**

1E BTEX ORGANICS ANALYSIS DATA SHEET

MS SAMPLE NO.

02SB21AAMSRE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Lab Sample ID: H245826MSRE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 014F0101.D

Date Received: 08/05/93

Date Analyzed: 08/11/93

% Moisture: 26

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

108-88-3Toluene	71-43-2Benzene	33	
		34 72	

MSD SAMPLE NO.

02SB21AAMSDRE

Lab Name: PACE, INC.

Contract: ELLINGTON

Lab Code: HOUSTON Case No.: ELL1

SDG No.: PKG1

Matrix: (soil/water) SOIL

Lab Sample ID: H245827MSDRE

Sample wt/vol: 5 (g/mL) g

Lab File ID: 015F0101.D

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27

Date Analyzed: 08/11/93

GC Column: RTX 502.2 ID: 0.53 (mm)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

71-43-2Benzene	37	
108-88-3Toluene	30	
100-41-4Ethylbenzene	36	
1330-20-7Xylene (Total)	69	
•		

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT TPH DATA PACKAGE ELL1, PKG2

PACE, INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 13, 1993

TPH CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG2 MATRIX: SOIL

- 1. This data package covers water samples received from August 5 to August 13. Refer to the enclosed list of samples and corresponding client identifications.
- 2. The samples were analyzed according to the EPA method 418.1 and reported on a dry weight basis.
- 3. The data was reported via the PACE, INC. LIMS system, which includes all the QA/QC data requirments for Level C HAZWRAP protocols.
- 4. All the TPH were analyzed within 28 days. This includes the reanalyses for the following samples: 02-RB01-A-A (H245839), 02-FB01-A-A (H245840), 01-FB02-A-A (H245841), and 02-RB02-A-A (H246039).

ELLINGTON AFB TRACKING CHART

CASE I.D.:	ELL1
SDG:	PKG2
MATRIX:	SOIL

PACE NUMBER	CLIENT I.D.	DATE SXD	DATE RCVD
H245835	02-SB16-B-A	8/5	8/5
H245836	02-SB20-B-A		
H245837	02-SB20-B-A MS		
H245838	02-SB20-B-A MSD		
H245839	02-RB01-A-A		
H245840	02-FB01-A-A		
H245841	02-FB02-A-A		
H245842	02-TB01-A-A	1	
H245843	02-TB02-A-A	1	
H246038	02-SB18-B-A	8/6	8/6
H246039	02-RB02-A-A	1	
H246040	02-SB15-A-A		
H246041	02-SB15-B-A	ı	
H246042	02-SB15-C-A		
H246043	02-FD15-C-A		
H246044	02-TB03-A-A	1	
H246697	02-SB19-A-A	8/11	8/11
H246698	02-RB03-A-A		
H246708	02-TB04-A		
H246770	02-SB18-B-A MS	8/6	8/6
H246771	02-SB18-B-A-MSD		
H247049	02-SB26-B-A	8/13	8/14
H247050	02-RB05-A-A		
H247051	02-TB06-A-A	1	1



September 14, 1993 Report No.: 00027123

Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB16-B-A

LSG SAMPLE NO: H0245835

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

 	TEST				
LN	CODE	DETERMINATION	RESULT	UNIT	
1	OVTSC	TCL - VOA + CLP Data Package - Soil			
		Data Package - VOA	Done	ug/kg	
2	OSTSC	TCL - BNA + CLP Data Package - Soil			
		Data Package - BNA	Done	ug/kg	
3	1800	CLP - percent moisture	27	*	
4	DPACK	CLP Data Package Deliverable	Done		
5	16858	Petroleum Hydrocarbons	41	mg/kg	
6	1801	CLP pH for Organics Extraction	6.52		

COMMENTS: Results reported on a dry weight basis.

Case: ELL1, SDG: PKG2 consists of PACE sample numbers:

H245835-H245843; H246038-H246044; H246697-H246698; H246708; H247049-H247051

The initial calibration verification (ICV) for TPH is as follows:

Date/Time run Percent Recovery

8/18/93 1404 97% 8/25/93 1042 91%

The continuing calibrations (CCV) for TPH are as follows:

Date/Time run Percent Recovery

8/18/93 1445 100% 8/25/93 1055 103% 9/3/93 0805 100%



September 14, 1993 Report No.: 00027123 Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-B-A

LSG SAMPLE NO: H0245836

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

	TEST			
 LN	CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	25	*
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	< 27	mg/kg
6	1801	CLP pH for Organics Extraction	6.55	

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661 An Equal Opportunity Employer



September 14, 1993 Report No.: 00027123

Section A Page 3

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-B-A MS DATE SAMPLED: 05-AUG-93

LSG SAMPLE NO: H0245837 DATE RECEIVED: 05-AUG-93

P.O. NO.: 1K94BC APPROVED BY: D Meyer

DETERMINATION UNITS LN CODE RESULT 2 OSTSC TCL - BNA + CLP Data Package - Soil Data Package - BNA Done ug/kg 3 26 1800 CLP - percent moisture DPACK CLP Data Package Deliverable 4 Done 16858 Petroleum Hydrocarbons 510 mg/kg

COMMENTS: Ms recovery Petroleum Hydrocarbons = 100.0 % .
Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123 Section A Page 4

LSG CLIENT NO: 0718 0001

PACE CLIENT: 620438

H07180001

PACE PROJECT:

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB20-B-A MSD

LSG SAMPLE NO: H0245838

DATE SAMPLED: 05-AUG-93

DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer P.G. NO.: 1K94BC

TEST CODE DETERMINATION RESULT UNITS LN

TCL - BNA + CLP Data Package - Soil 2 OSTSC Data Package - BNA Done ug/kg 27 % 3 1800 CLP - percent moisture CLP Data Package Deliverable Done 4 DPACK 510 mg/kg 5 1685s Petroleum Hydrocarbons

COMMENTS: % Moisture Relative Percent Difference = 7.6 .

Petroleum Hydrocarhons Matrix Spike Duplicate recovery = 97.4 %; RPD = 2.7 .

Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB01-A-A

LSG SAMPLE NO: H0245839

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	6.35	
		•		

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661 An Equal Opportunity Employer



September 14, 1993 Report No.: 00027123 Section A Page 6

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FB01-A-A

LSG SAMPLE NO: H0245840

P.O. NO.: 1K94BC

....

DATE SAMPLED: 05-AUG-93
DATE RECEIVED: 05-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	_
5	16858	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	6.05	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661 An Equal Opportunity Employer



September 14, 1993

Report No.: 00027123

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FB02-A-A

LSG SAMPLE NO: H0245841

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY:

D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	
5	1685\$	Petroleum Hydrocarbons	< 20	mg/kg
4	1801	CLP of for Organics Extraction	7.39	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123

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LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB01-A-A

LSG SAMPLE NO: H0245842

P.O. NO.: 1K94BC

DATE SAMPLED: 05-AUG-93

DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

TEST

DPACK

LN

DETERMINATION

RESULT

UNITS

OVTSC 1

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB02-A-A

LSG SAMPLE NO: H0245843

P.O. NO.: 1K94BC

PACE CLIENT: 620438

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

DATE SAMPLED: 05-AUG-93 DATE RECEIVED:

05-AUG-93

APPROVED BY: D Meyer

TEST CODE LN

DETERMINATION

RESULT

OVTSC

DPACK

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

1

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-B-A

LSG SAMPLE NO: H0246038

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

 <u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		()
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	21	*-
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	38	mg/kg
6	1801	CLP pH for Organics Extraction	6.76	
-				

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB02-A-A

LSG SAMPLE NO: H0246039

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY:

TEST RESULT UNITS CODE DETERMINATION LN 1 OVTSC TCL - VOA + CLP Data Package - Soil Data Package - VOA Done ug/kg 2 OSTSC TCL - BNA + CLP Data Package - Soil Done ug/kg Data Package - BNA 4 DPACK CLP Data Package Deliverable Done 5 16858 Petroleum Hydrocarbons < 20 mg/kg 1801 CLP pH for Organics Extraction 5.67 6

COMMENTS:



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB15-A-A

LSG SAMPLE NO: H0246040

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

TEST UNITS RESULT DETERMINATION CODE LN % 16 1800 CLP - percent moisture 3 Done CLP Data Package Deliverable DPACK 35 mg/kg 5 16858 Petroleum Hydrocarbons

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB15-B-A

LSG SAMPLE NO: H0246041

P.O. NO.: 1K94BC

PACE PROJECT: H07180001 PACE CLIENT: 620438

LSG CLIENT NO: 0718 0001

DATE SAMPLED: 06-AUG-93

DATE RECEIVED: 06-AUG-93

APPROVED BY: D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
3	1800	CLP - percent moisture	25	*
4 5	DPACK 1685S	CLP Data Package Deliverable Petroleum Hydrocarbons	Done < 27	mg/kg

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993 Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB15-C-A

LSG SAMPLE NO: H0246042

P.O. NO.: 1K94BC

DATE SAMPLED: 06-AUG-93 DATE RECEIVED:

06-AUG-93

D Meyer

APPROVED BY:

<u>ln</u>	TEST CODE	DETERMINATION	RESULT	UNITS

3	1800	CLP - percent moisture	19	*
4	DPACK	CLP Data Package Deliverable	Done	
5	1685S	Petroleum Hydrocarbons	49	mg/kg

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-FD15-C-A

LSG SAMPLE NO: H0246043

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

TEST UNITS RESULT DETERMINATION CODE ۲ 15 CLP - percent moisture 3 1800 Done CLP Data Package Deliverable DPACK mg/kg < 24 1685S Petroleum Hydrocarbons

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB03-A-A

LSG SAMPLE NO: H0246044

P.O. NO.: 1K94BC

DATE RECEIVED:

DATE SAMPLED: 06-AUG-93

06-AUG-93

APPROVED BY: D Meyer

TEST

OVTCS

CODE LN

DETERMINATION

RESULT

UNITS

4 DPACK CLP Data Package Deliverable

TCL - Volatiles in Soil

Data Package - VOA

Done

Done

ug/kg

COMMENTS:

5



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB19-A-A

LSG SAMPLE NO: H0246697

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 11-AUG-93

DATE RECEIVED:

11-AUG-93

APPROVED BY: D Meyer

	TEST			
LN	CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	27	×
4	DPACK	CLP Data Package Deliverable	Done	
5	1685S	Petroleum Hydrocarbons	< 27	mg/kg
6	1801	CLP pH for Organics Extraction	6.48	

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993

Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB03-A-A

.. LSG SAMPLE NO: H0246698

P.O. NO.: 1K94BC

DATE SAMPLED: 11-AUG-93

DATE RECEIVED:

11-AUG-93

APPROVED BY:

D Meyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	(le-
5	1685s	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	6.48	

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB04-A

LSG SAMPLE NO: H0246708

P.O. NO.: 1K94BC

PACE PROJECT: H07180001 PACE CLIENT: 620438

LSG CLIENT NO: 0718 0001

DATE SAMPLED: 11-AUG-93
DATE RECEIVED: 11-AUG-93

APPROVED BY: D Meyer

TEST CODE

DETERMINATION

RESULT

IDITE

1 OVTSC

DPACK

LN

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-B-A MS

LSG SAMPLE NO: H0246770

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY:

TEST

DPACK

LN

DETERMINATION

RESULT

UNITS

OVTSC 1

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS: Results reported on a dry weight basis.

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



September 14, 1993

Report No.: 00027123

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB18-B-A MSD

LSG SAMPLE NO: H0246771

P.O. NO.: 1K94BC

DATE SAMPLED: 06-AUG-93

DATE RECEIVED:

06-AUG-93

APPROVED BY: D Meyer

TEST

LN CODE DETERMINATION

RESULT

UNITS

OVTSC

DPACK

TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done ug/kg

COMMENTS:

1

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-SB26-B-A

LSG SAMPLE NO: H0247049

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 13-AUG-93

DATE RECEIVED: 14-AUG-93

APPROVED BY:

D Meyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
3	1800	CLP - percent moisture	27	x —
4	DPACK	CLP Data Package Deliverable	Done	
5	1685S	Petroleum Hydrocarbons	< 27	mg/kg
6	1801	CLP pH for Organics Extraction	6.97	

COMMENTS: Results reported on a dry weight basis.



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-RB05-A-A

LSG SAMPLE NO: H0247050

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001

PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 13-AUG-93 DATE RECEIVED:

14-AUG-93

APPROVED BY:

D Meyer

TEST			
CODE	DETERMINATION	RESULT	UNITS

1	OVTSC	TCL - VOA + CLP Data Package - Soil		
		Data Package - VOA	Done	ug/kg
2	OSTSC	TCL - BNA + CLP Data Package - Soil		
		Data Package - BNA	Done	ug/kg
4	DPACK	CLP Data Package Deliverable	Done	
5	16858	Petroleum Hydrocarbons	< 20	mg/kg
6	1801	CLP pH for Organics Extraction	8.20	
		·		

COMMENTS:

LN

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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LABORATORY ANALYSIS REPORT

CLIENT NAME: BROWN & ROOT ENVIRONMENTAL

ADDRESS: P.O. BOX 4574

HOUSTON, TX 77210-4574

ATTENTION: MARK SPENCER

SAMPLE ID: 02-TB06-A-A

LSG SAMPLE NO: H0247051

P.O. NO.: 1K94BC

LSG CLIENT NO: 0718 0001 PACE PROJECT: H07180001

PACE CLIENT: 620438

DATE SAMPLED: 13-AUG-93

DATE RECEIVED: 14-AUG-93

APPROVED BY: D Meyer

TEST

DPACK

LN

DETERMINATION

......

RESULT

UNITS

1 OVTSC TCL - VOA + CLP Data Package - Soil

Data Package - VOA

CLP Data Package Deliverable

Done Done

ug/kg

COMMENTS:

900 Gemini Avenue Houston, TX 77058 TEL: 713-488-1810 FAX: 713-488-4661



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	TEST	PREP	LR-			LR-				ANLS	
N 	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANAL	YST BATCH	INSTRUMEN
A۱	IPLE ID:	02-SB	16-B-A				LSG SA	AMPLE	NO:	H0245835	
	OVTSC	0	NA			20-CLP	15-AUG-93	1852	MSH	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 12	200 RE	20-CLPSW	20-AUG-93	1440	ASP	0	GCMSS
	1800	33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
	DPACK	0	NA				10-SEP-93	1700	SLG	0	
	1685S	33193	19-3550			02-418.1	18-AUG-93	1407	LJH	0	302WAT
	1801	33007	NA			20-D21SV	11-AUG-93	1200	SS	0	111WAT
R 2 9	EPA-M	ethods est Meti	hods for E	cal Analysis of valuating So	of Water & Wastes, lid Waste, 3rd ed, , Multi-Conc., Rev.	Nov. 1986					
١M	PLE ID:	02-SB	20-8-A				LSG SA	MPLE	NO:	H0245836	
	OVTSC	0	NA			20-CLP	15-AUG-93	2120	MSH	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 12	200 RE	20-CLPSW	20-AUG-93	1523	ASP	.0	GCMSS
	1800	33124	NA			20-D21SV	16-AUG-93	2200	JB	0	004WAT
							10 050 07	4700	CLC	0	
	DPACK	0	NA				10-SEP-93	1700	SLU	U	
	DPACK	0 33193	NA 19-3550			02-418.1	10-SEP-93				302WAT
	DPACK	-						1409	LJH	0	302WAT 111WAT
2	DPACK 1685S 1801 Metho EPA-M	33193 33007 d Litera ethods t	19-3550 NA ature Refe for Chemic nods for E	al Analysis of the control of the co	of Water & Wastes, lid Waste, 3rd ed, , Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986	18-AUG-93	1409	LJH	0	
)	DPACK I685S I801 Metho EPA-M EPA-T USEPA	33193 33007 d Litera ethods t est Meth	19-3550 NA ature Refe for Chemic nods for E	al Analysis of the control of the co	lid Waste, 3rd ed,	20-D21sV 1984. Nov. 1986	18-AUG-93 11-AUG-93	1409 1200	LJH	0	
!	DPACK I685S I801 Metho EPA-M EPA-T USEPA	33193 33007 d Litera ethods f est Meth CLP SOM	19-3550 NA ature Refe for Chemic nods for E V for Orga	al Analysis of the control of the co	lid Waste, 3rd ed, , Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986 2/88	18-AUG-93 11-AUG-93	1409 1200	LJH SS NO:	0	111WAT
)	DPACK I685S I801 Metho EPA-M EPA-T USEPA	33193 33007 d Litera ethods 1 est Meth CLP SOL 02-SB2 32942	19-3550 NA ature Refe for Chemic nods for E V for Orga 20-B-A MS	al Analysis (valuating Sol nic Analysis,	lid Waste, 3rd ed, , Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986 2/88	18-AUG-93 11-AUG-93 LSG SA 20-AUG-93	1409 1200 MPLE 1603	LJH SS NO:	0 0 H0245837	111WAT
)	DPACK 1685S 1801 Metho EPA-M EPA-T USEPA PLE ID:	33193 33007 d Liters ethods 1 est Meth CLP SOM 02-SB2 32942 33124	19-3550 NA ature Refe for Chemic nods for E V for Orga 20-B-A MS	al Analysis (valuating Sol nic Analysis,	lid Waste, 3rd ed, , Multi-Conc., Rev.	20-D21sV 1984. Nov. 1986 2/88	18-AUG-93 11-AUG-93 LSG SA	1409 1200 MPLE 1603 2200	LJH SS NO: ASP JB	0 0 H0245837 0	111WAT



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				SAMPLE	PREPARATION			SAMPL	E ANALY	SIS '	••••••
	TEST	PREP	LR-			LR-				ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST		DATE/TIME	A	NALYST	BATCH	INSTRUMENT

<u>LR</u>	Metho	d Litera	ature Refe	erence							
02	EPA-M	ethods f	for Chemic	cal Analysis (of Water & Wastes,	1984.					
19					lid Waste, 3rd ed						
20	USEPA	CLP SOW	/ for Orga	anic Analysis,	, Multi-Conc., Rev	. 2/88					
SAN	PLE ID:	02-SB2	O-B-A MSD)			LSG SAI	IPLE N	O: HO24	5838	
2	OSTSC	32942	20-CLP	09-AUG-93 12	200 PE	20-ci peu	20-AUG-93	14/0 kg		•	201122
3	1800	33124	NA	07 A00 75 12	200 KL		16-AUG-93				GCMSS 004WAT
4	DPACK	0	NA			20 02101	10-SEP-93			0	UU4WA I
5	1685\$	33193	19-3550		•	02-418.1	18-AUG-93			_	302WAT
LR	Method	d Litera	ture Refe	rence							
02	EPA-Me	ethods f	or Chemic	al Analysis o	of Water & Wastes,	1984.					
19	EPA-Te	est Meth	ods for E	valuating Sol	id Waste, 3rd ed,	Nov. 1986					
20	USEPA	CLP SOW	for Orga	nic Analysis,	Multi-Conc., Rev	. 2/88					
SAM	PLE ID:	02-RB0	1-A-A				LSG SAM	IPLE NO	э: но24	5839	
1	OVTSC	0	NA			20-CLP	13-AUG-93 1	253 JE	IP.	0	GCMSO
2	OSTSC		20-CLP	09-AUG-93 12	00 RE	20-CLPSW	20-AUG-93 1	731 AS	P		GCMSS
4	DPACK	_	NA				10-SEP-93 1	700 SL	.G	0	
5	1685s		19-3550			02-418.1	03-SEP-93 8	09 LJ	Н	0 :	302WAT
6	1801	33007	NA			20-D21sV	11-AUG-93 1	200 SS		0	111WAT
LR	Method	Litera	ture Refe	rence							
02	EPA-Me	thods for	or Chemica	al Analysis o	f Water & Wastes,	1984.					
19					id Waste, 3rd ed,						
20	USEPA	CLP SOW	for Organ	nic Analysis,	Multi-Conc., Rev	. 2/88					



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE P	KEI AKAI 10H	15-		0,	A	ANLS	
	TEST			DATE / TIME	ANALYCT	LR-	DATE /TIME		ANALS	ANLS YST BATCH	THETOLINEN
	CODE	BATCH	METHOD	DATE/TIME	ANALYSI	METHOD	DATE/TIME		MMAL	ISI BAICH	INSTRUMEN
M	PLE ID:	02-FB0	01-A-A				LSG S	AMPLE	NO:	но245840	
	OVTSC	0	NA			20-CLP	13-AUG-93	1321	JBP	0	GCMSO
	OSTSC	32942	20-CLP	09-AUG-93 12	200 RE	20-CLPSW	30-AUG-93	1144	ASP	0	GCMSS
	DPACK	0	NA				10-SEP-93	1700	SLG	0	
	1685s	33193	19-3550			02-418.1	03-SEP-93	811	LJH	0	302WAT
	1801	33007	NA			20-D21SV	11-AUG-93	1200	SS	0	111WAT
	USEPA	CLP 3UV	/ tor Orga	nic Analysis,	, Multi-Conc., I	Rev. 2/88					
		02-FB0		nic Analysis,	, Multi-Conc., I	Rev. 2/88	LSG S	AMPLE	NO:	но245841	
		02-FB0		nic Analysis,	, Multi-Conc., I	20-CLP	13-AUG-93	1347	JBP	0	GCMSO
	PLE ID: OVTSC OSTSC	02-FB0 0 0	02-A-A NA 20-CLP	nic Analysis,	, Multi-Conc., I	20-CLP	13-AUG-93 20-AUG-93	1347 1814	JBP ASP	0	GCMS0 GCMSS
	OVTSC OSTSC DPACK	02-FB0 0 0	02-A-A NA 20-CLP NA	nic Analysis,	, Multi-Conc., I	20-CLP 20-CLPSW	13-AUG-93 20-AUG-93 10-SEP-93	1347 1814 1700	JBP ASP SLG	0 0 0	GCMSS
	OVTSC OSTSC DPACK 1685S	02-FB0 0 0 0 0 33193	NA 20-CLP NA 19-3550	nic Analysis,	, Multi-Conc., I	20-CLP 20-CLPSW 02-418.1	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
	OVTSC OSTSC DPACK	02-FB0 0 0	02-A-A NA 20-CLP NA	nic Analysis,	, Multi-Conc., I	20-CLP 20-CLPSW 02-418.1	13-AUG-93 20-AUG-93 10-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS
	OVTSC OSTSC DPACK 1685S 1801	02-FB0 0 0 0 33193 33007	NA 20-CLP NA 19-3550 NA	erence		20-CLP 20-CLPSW 02-418.1 20-D21SV	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
	OVTSC OSTSC DPACK 1685S 1801 Metho	02-FB0 0 0 0 33193 33007 d Litera	NA 20-CLP NA 19-3550 NA ature Refe	<u>erence</u> al Analysis (of Water & Wast	20-CLP 20-CLPSW 02-418.1 20-D21SV es, 1984.	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
	OVTSC OSTSC DPACK I685S I801 Metho EPA-M	02-FB0 0 0 0 33193 33007 d Litera ethods (NA 20-CLP NA 19-3550 NA ature Refe for Chemic	erence al Analysis (valuating So	of Water & Wasto lid Waste, 3rd o	20-CLP 20-CLPSW 02-418.1 20-D21SV es, 1984. ed, Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
•	OVTSC OSTSC DPACK I685S I801 Metho EPA-M	02-FB0 0 0 0 33193 33007 d Litera ethods (NA 20-CLP NA 19-3550 NA ature Refe for Chemic	erence al Analysis (valuating So	of Water & Wast	20-CLP 20-CLPSW 02-418.1 20-D21SV es, 1984. ed, Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93	1347 1814 1700 813	JBP ASP SLG LJH	0 0 0	GCMSS 302WAT
	OVTSC OSTSC DPACK 1685S 1801 Metho EPA-M EPA-T USEPA	02-FB0 0 0 0 33193 33007 d Litera ethods (NA 20-CLP NA 19-3550 NA ature Refe for Chemic nods for E	erence al Analysis (valuating So	of Water & Wasto lid Waste, 3rd o	20-CLP 20-CLPSW 02-418.1 20-D21SV es, 1984. ed, Nov. 1986	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93 11-AUG-93	1347 1814 1700 813 1200	JBP ASP SLG LJH SS	0 0 0	GCMSS 302WAT
•	OVTSC OSTSC DPACK 1685S 1801 Metho EPA-M EPA-T USEPA	02-FB0 0 0 33193 33007 d Litera ethods 1 est Meth CLP SOW	NA 20-CLP NA 19-3550 NA ature Refe for Chemic nods for E	erence al Analysis (valuating So	of Water & Wasto lid Waste, 3rd o	20-CLP 20-CLPSW 02-418.1 20-D21SV es, 1984. ed, Nov. 1986 Rev. 2/88	13-AUG-93 20-AUG-93 10-SEP-93 03-SEP-93 11-AUG-93	1347 1814 1700 813 1200	JBP ASP SLG LJH SS	0 0 0 0 0	GCMSS 302WAT

USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



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				SAMPLE PREPA	RATION		SAM	PLE ANA	LYSIS	
	TEST	PREP				LR-			ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME A	NALYST	METHOD	DATE/TIME	ANALYS	T BATCH	INSTRUMENT
-										
· A1	MPLE ID:	02-10	N2-A-A				LCC CAMPLE	NO. 0	02/50/7	
m	TPLE ID:	02-18	02-M-M				LSG SAMPLE	NO: H	0243643	
	OVTSC	0	NA			20-CLP	13-AUG-93 1441	JBP	0	GCMSO
٠	DPACK	0	NA				10-SEP-93 1700	SLG	0	
	Motha	d Liton	ntuna Baf	20000						
20	-		ature Refe d for Orga		ti-Conc., Rev. 2/8	88				
Al	MPLE ID:	02-SB	18-B-A				LSG SAMPLE	NO: H	0246038	
	OVTSC	n	NA			20-CLP	13-AUG-93 1607	IRD	0	GCMSO
				09-AUG-93 1200 R	F		20-AUG-93 1857			GCMSS
	1800	33124	NA SE	77 700 70 1200 K	_		16-AUG-93 2200		Ö	004WAT
	DPACK		NA			20 02101	10-SEP-93 1700		Õ	OUTANI
	16855		19-3550			02-418 1	18-AUG-93 1428			302WAT
	1801	33007	NA				11-AUG-93 1200			111WAT
_										
<u>R</u>			ture Refe							
				•	ter & Wastes, 1984.					
9				-	aste, 3rd ed, Nov. ti-Conc., Rev. 2/8					
•	OOL! A	02. 00.	v tot orga	and Anatysis, nat	er donor, kevi zy					
		02 000							02/4030	
Αŀ	MPLE ID:	UZ-KBI	JZ-A-A				LSG SAMPLE	NO: H	0240039	
	MPLE ID:		NA			20-CLP			0	GCMSO
	OVTSC		NA	09-AUG-93 1200 R	E .		13-AUG-93 1508	JBP	0	GCMSO GCMSS
	OVTSC	0 32942	NA	09-AUG-93 1200 R	E		13-AUG-93 1508	JBP ASP	0	GCMSO GCMSS
AI	OVTSC OSTSC DPACK	0 32942	NA 20-CLP NA	09-AUG-93 1200 R	E .	20-CLPSW	13-AUG-93 1508 20-AUG-93 1940	JBP ASP SLG	0	

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986



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	TEST	PREP	LR-			LR-					ANLS	
	CODE	BATCH	METHOD	DATE/TIME		METHO					YST BATCH	
R	Metho	d Litera	ture Refe	erence								
_												
0	USEPA	CLP SOW	for Orga	anic Analysis	s, Multi-Conc	., Rev. 2/88						
	N.E. 10.	03-001	E-A-A					LSG SAM	IPLE	NO:	H0246040	
AMI	PLE ID:	02-SB1	13-A-A					ESG SAIN			110240040	
	1800	33124	NA			20-D	21SV	16-AUG-93 2	2200	JB	0	004WAT
	DPACK	0	NA					10-SEP-93 1	700	SLG	0	
	1685s	33193	19-3550			02-4	18.1	18-AUG-93 1	1433	LJH	0	302WAT
			ture Ref									
_	EPA-M	ethods 1	for Chemi	cal Analysis	of Water & W							
2	EPA-M	ethods 1 est Meth	for Chemic nods for I	cal Analysis Evaluating So	olid Waste, 3	rd ed, Nov. 1986						
9	EPA-M	ethods 1 est Meth	for Chemic nods for I	cal Analysis Evaluating So	olid Waste, 3							
<u>R</u> 2 9 0	EPA-M EPA-T USEPA	ethods 1 est Meth CLP SOL	for Chemic nods for I I for Org	cal Analysis Evaluating So	olid Waste, 3	rd ed, Nov. 1986		LSG SAM	4PLE	NO:	H0246041	
9	EPA-M EPA-T USEPA	ethods 1 est Meth	for Chemic nods for I I for Org	cal Analysis Evaluating So	olid Waste, 3	rd ed, Nov. 1986		LSG SAM	4PLE	NO:	H0246041	
2 9 0 AM	EPA-M EPA-T USEPA PLE ID:	ethods 1 est Meth CLP SOU	for Chemic mods for I I for Organia	cal Analysis Evaluating So	olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88	21sv	LSG SAM				004WAT
9	EPA-M EPA-T USEPA	ethods 1 est Meth CLP SON 02-SB1 33124	for Chemic mods for I I for Organia	cal Analysis Evaluating So	olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88	21sv		2200	JB	0	004WAT
))	EPA-M EPA-T USEPA PLE ID: 1800 DPACK	ethods 1 est Meth CLP SON 02-SB1 33124 0	for Chemic nods for I I for Org 15-B-A NA	cal Analysis Evaluating So anic Analysis	olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88		16-AUG-93 2	2200 1700	JB SLG	0	
M	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S	ethods 1 est Meth CLP SOL 02-SB1 33124 0 33193	for Cheminods for I for Organista 15-B-A NA NA 19-3550	cal Analysis Evaluating So anic Analysis	olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88		16-AUG-93 2 10-SEP-93 1	2200 1700	JB SLG	0	
2) \ \ \ \ \ \ \	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho	ethods 1 est Meth CLP SOL 02-SB1 33124 0 33193 d Literal lethods 1	for Cheminods for I for Organistation of I IS-B-A NA NA 19-3550 Sector Ref	cal Analysis Evaluating So anic Analysis erence cal Analysis	olid Waste, 3 s, Multi-Conc of Water & W	rd ed, Nov. 1986 ., Rev. 2/88 20-D 02-4 astes, 1984.		16-AUG-93 2 10-SEP-93 1	2200 1700	JB SLG	0	
2 2 3 4 4 2	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho	ethods 1 est Meth CLP SOL 02-SB1 33124 0 33193 d Literal lethods 1	for Cheminods for I for Organistation of I IS-B-A NA NA 19-3550 Sector Ref	cal Analysis Evaluating So anic Analysis erence cal Analysis	olid Waste, 3 s, Multi-Conc of Water & W	rd ed, Nov. 1986 ., Rev. 2/88 20-D		16-AUG-93 2 10-SEP-93 1	2200 1700	JB SLG	0	
2 9 0 AM	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho EPA-M	ethods 1 est Meth CLP SOW 02-SB1 33124 0 33193 ed Literal lethods 1	for Cheminods for Information of Information Inf	cal Analysis Evaluating So anic Analysis erence cal Analysis Evaluating So	olid Waste, 3 s, Multi-Conc of Water & W olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88 20-D 02-4 astes, 1984.		16-AUG-93 2 10-SEP-93 1	2200 1700	JB SLG	0	
2 2 3 3 4 4 4 7 7	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho EPA-M EPA-T USEPA	ethods 1 est Meth CLP SOW 02-SB1 33124 0 33193 ed Literal lethods 1	for Cheminods for I for Organistation of the Indiana IS-B-A NA NA 19-3550 Seture Ref for Cheminods for I for Organistation of the Indiana	cal Analysis Evaluating So anic Analysis erence cal Analysis Evaluating So	olid Waste, 3 s, Multi-Conc of Water & W olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88 20-D 02-4 astes, 1984. rd ed, Nov. 1986		16-AUG-93 2 10-SEP-93 1 18-AUG-93 1	2200 1700 1436	JB SLG LJH	0	
2 2 2 3 3 4 4 7 7 7 7	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho EPA-M EPA-T USEPA	ethods 1 est Meth CLP SOW 02-SB1 33124 0 33193 ed Litera lethods 1 CLP SOW 02-SB1	for Cheminods for I for Organistation of the Indiana IS-B-A NA NA 19-3550 Seture Ref for Cheminods for I for Organistation of the Indiana	cal Analysis Evaluating So anic Analysis erence cal Analysis Evaluating So	olid Waste, 3 s, Multi-Conc of Water & W olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88 20-D 02-4 astes, 1984. rd ed, Nov. 1986 ., Rev. 2/88	18.1	16-AUG-93 2 10-SEP-93 1 18-AUG-93 1	2200 1700 1436 MPLE	JB SLG LJH	0 0 0	TAWŞ0E
2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho EPA-M EPA-T USEPA PLE ID:	ethods 1 est Meth CLP SOW 02-SB1 33124 0 33193 ed Litera lethods 1 CLP SOW 02-SB1	for Cheminods for I for Organis-B-A NA NA 19-3550 Seture Ref for Cheminods for I for Org	cal Analysis Evaluating So anic Analysis erence cal Analysis Evaluating So	olid Waste, 3 s, Multi-Conc of Water & W olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88 20-D 02-4 astes, 1984. rd ed, Nov. 1986 ., Rev. 2/88	18.1	16-AUG-93 2 10-SEP-93 1 18-AUG-93 1 LSG SAM	2200 1700 1436 MPLE 2200	JB SLG LJH NO:	0 0 0 H0246042	TAWŞ0E
2 2 3 3 4 4 4 7 7	EPA-M EPA-T USEPA PLE ID: 1800 DPACK 1685S Metho EPA-M EPA-T USEPA PLE ID: 1800 DPACK	ethods 1 est Meth CLP SOW 02-SB1 33124 0 33193 ed Litera lethods 1 CLP SOW 02-SB1 33125 0	for Cheminods for I for Organis-B-A NA NA 19-3550 Seture Ref for Cheminods for I for Org	cal Analysis Evaluating So anic Analysis erence cal Analysis Evaluating So panic Analysis	olid Waste, 3 s, Multi-Conc of Water & W olid Waste, 3	rd ed, Nov. 1986 ., Rev. 2/88 20-D 02-4 astes, 1984. rd ed, Nov. 1986 ., Rev. 2/88	18.1 21sv	16-AUG-93 2 10-SEP-93 1 18-AUG-93 1	2200 1700 1436 MPLE 2200 1700	JB SLG LJH NO: JB SLG	0 0 0 H0246042 0	



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				SAMPLE PE	REPARATION		SAM	PIF ANAL	vs1s	
	TEST	PREP	LR-	SAINEL TO	CL F ARA I TON	LR-	SAIT	LE ANAL	ANLS	
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANALYST	BATCH	INSTRUMENT
<u>LR</u>	Metho	d Litera	ture Refe	rence		•				
02	EPA-M	ethods f	or Chemic	al Analysis of	Water & Wastes, 1	984.				
19				•	id Waste, 3rd ed, N					
20					Multi-Conc., Rev.					
	DIE 10-	03 504	F 6 4				I CC CAMPLE	NO- 110	2/40/7	
SAM	PLE ID:	02-FD1	3-C-A				LSG SAMPLE	NU: HU	240043	
3	1800	33125	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA				10-SEP-93 1700	SLG	0	
5	1685\$	33193	19-3550			02-418.1	18-AUG-93 1444	LJH	0	302WAT
LR	Metho	d Litera	ture Refe	rence						
02					Water & Wastes, 19	984.				
19				•	d Waste, 3rd ed, No					
20	USEPA	CLP SOW	for Orga	nic Analysis,	Multi-Conc., Rev.	2/88				
CAM	DIE 10.	02-TB0	7.4.4				LSG SAMPLE	NO. NO.	2/40//	
SAM	PLE 10:	02-180	3-X-X				LSG SAMPLE	NO: NO	.40044	
4	DPACK	0	NA				10-SEP-93 1700	SLG	0	
5	OVTCS	0	NA			19-8240	13-AUG-93 1534	JBP	0	GCMSO
LR	Metho	d Litera	ture Refe	rence						
19					d Waste, 3rd ed, No	ov. 1986				
SAM	PLE ID:	02-SB1	9-A-A				LSG SAMPLE	NO: HO2	246697	
1	OVTSC	0	NA			20-CLP	14-AUG-93 2217	EHM	0	GCMSO
2	OSTSC		20-CLP	12-AUG-93 120	O MLN		27-AUG-93 1354			GCMSS
3	1800	33125	NA			20-D21SV	16-AUG-93 2200	JB	0	004WAT
4	DPACK	0	NA				10-SEP-93 1700	SLG	0	



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE P	REPARATION			- SAM	PLE A	NALYSIS	
•	TEST	PREP	LR-			LR-				ANLS	
.N	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME		ANAL	YST BATCH	INSTRUMENT
	1685S		19-3550			02-418 1	25-AUG-93	1046	SAO	0	302WAT
5	1801	33127	NA				16-AUG-93			-	111WAT
,	1001	33121	NA.			20 02:01			••	-	***************************************
LR.	Metho	d Litera	ture Refe	erence							
)2	EPA-M	ethods f	or Chemic	cal Analysis o	f Water & Wastes,	, 1984.					
9	EPA-T	est Meth	ods for E	Evaluating Sol	id Waste, 3rd ed,	, Nov. 1986					
20	USEPA	CLP SON	for Orga	anic Analysis,	Multi-Conc., Rev	/. 2/88					
SAM	PLE ID:	O2-RBC	3-A-A				LSG S	AMPLE	NO:	H0246698	
ı	OVTSC	0	NA			20-CLP	14-AUG-93	2344	EHM	0	GCMSO
2	OSTSC	33041	20-CLP	12-AUG-93 12	OO MLN	20-CLPSW	23-AUG-93	1055	ASP	0	GCMSS
	-DPACK	0	NA				10-SEP-93	1700	SLG	0	
5	1685S	33386	19-3550			02-418.1	25-AUG-93	1048	SAO	0	302WAT
5	1801	33127	NA			20-D21SV	16-AUG-93	500	JB	0	111WAT
<u>R</u>	Wetho	d Liters	ture Refe	rence							
<u>-^</u>					f Water & Wastes,	. 1984.					
19					id Waste, 3rd ed						
20					Multi-Conc., Rev						
SAM	PLE ID:	02-TB0	14-A				LSG S	AMPLE	NO:	H0246708	
1	OVTSC	0	NA			20-CLP	15-AUG-93	13	EHM	0	GCMSO
	DPACK	0	NA				10-SEP-93	1700	SIG	0	

20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE	PREPARATION				- SAM	PLE A		
	CODE		METHOD		ANALYST			DATE/TIME			ANLS YST BATCH	
-												
М	PLE ID:	02-SB	18-B-A MS					LSG S	SAMPLE	NO:	H0246770	
	OVTSC	0	NA				20-CLP	13-AUG-93	1638	JBP	0	GCMSO
	DPACK	0	NA					10-SEP-93	1700	SLG	0	
	Metho	d Litera	sture Refe	erence								
	USEPA	CLP SO	l for Orga	nic Analysis	, Multi-Conc., Re	ev. 2/88						
M	PLE ID:	02-SB1	18-B-A MSD	1				LSG S	AMPLE	NO:	H0246771	
	OVTSC	0	NA				20-CLP	13-AUG-93	1714	JBP	0	GCMSO
	DPACK	0	NA					10-SEP-93	1700	SLG	0	
	Metho	d Litera	ture Refe	rence								
	USEPA	CLP SO	i for Orga	nic Analysis	, Multi-Conc., Re	v. 2/88						
41	PLE ID:	02-SB2	26-B-A					LSG S	AMPLE	NO:	H0247049	
	OVTSC	0	NA				20-CLP	24-AUG-93	1332	EHM	0	GCMSO
	OSTSC	33261	20-CLP	17-AUG-93 1	330 RDQ		20-CLPSW	27-AUG-93	1509	ASP	0	GCMSS
	1800	33327	NA		•		20-D21SV	23-AUG-93	1230	DPP	0	005WAT
	DPACK	0	NA					10-SEP-93	1700	SLG	0	
	1685S	33386	19-3550				02-418.1	25-AUG-93	1051	SAO	0	302WAT
	1801	33351	NA				20-D21SV	24-AUG-93	1500	DPP	0	111WAT
	Metho	d Litera	iture Refe	rence								
	EPA-M	ethods 1	or Chemic	al Analysis	of Water & Wastes	, 1984.						
					lid Waste, 3rd ed		1986					

USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88

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QUALITY CONTROL REPORT SUPPLEMENTAL INFORMATION

				SAMPLE P	REPARATION	LR-	-		-	ANLS	
	TEST CODE	PREP BATCH	LR- METHOD	DATE/TIME	ANALYST		DATE/TIME		ANAL'	YST BATCH	INSTRUMEN
AMD		02-RB(15-A-A				LSG SAM	PLE	NO:	H0247050	
MMF	LE 10.	OL KD									
	OVTSC	0	NA				17-AUG-93 17				GCMSO
		33261		17-AUG-93 13	30 RDQ	20-CLPSW	23-AUG-93 14	429	ASP	0	GCMSS
	DPACK		NA		*		10-SEP-93 1				
			19-3550			02-418.1	25-AUG-93 1	053	SAO	0	302WAT
	1801		NA			20-D21SV	17-AUG-93 1	530	RDQ	0	
9	EPA-N	ethods est Met	hods for E	al Analysis o Valuating Sol	f Water & Wastes, id Waste, 3rd ed, Multi-Conc., Rev	Nov. 1986					
R 22 9 20	EPA-M EPA-T USEPA	ethods est Met	for Chemic hods for E W for Orga	al Analysis o Valuating Sol	id Waste, 3rd ed,	Nov. 1986	LSG SAM	PLE	NO:	но247051	
9 20 SAMP	EPA-M EPA-T USEPA PLE ID:	ethods est Met CLP SO	for Chemic hods for E W for Orga 06-A-A	al Analysis o Valuating Sol	id Waste, 3rd ed,	Nov. 1986	LSG SAM 17-AUG-93 1				GCMSO

LR Method Literature Reference

20 USEPA CLP SOW for Organic Analysis, Multi-Conc., Rev. 2/88



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QUALITY CONTROL REPORT LABORATORY CONTROL SAMPLE RECOVERY

PERCENT **ACCEPTANCE** TEST LIMITS RECOVERY CODE DETERMINATION LSG SAMPLE NO: H0246506 BATCH: 32942 SAMPLE ID: Lab Control Sample OSTSC TCL - BNA + CLP Data Package - Soil Done Data Package - BNA LSG SAMPLE NO: H0247904 BATCH: 33193 SAMPLE ID: Lab Control Sample 104.0 1685S Petroleum Hydrocarbons LSG SAMPLE NO: H0249222 BATCH: 33386 SAMPLE ID: Lab Control Sample 91.0 1685S Petroleum Hydrocarbons



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METHOD BLANK DATA

	TEST CODE	Determination	RES	ULT	UNIT	
BATCH: 32942	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	н0246507
	OSTSC	TCL - BNA + CLP Data Package - Soil Data Package - BNA	D	one	ug/i	kg
BATCH: 33041	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0247657
	OSTSC	TCL - BNA + CLP Data Package - Soil Data Package - BNA	D	one	ug/	kg
BATCH: 33124	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0247792
-	1800	CLP - percent moisture	<	0.1	*	
BATCH: 33125	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0247793
	1800	CLP - percent moisture	<	0.1	*	
BATCH: 33193	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0247905
	16858	Petroleum Hydrocarbons	•	< 20	mg/	'kg
BATCH: 33261	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0249014
	OSTSC	TCL - BNA + CLP Data Package - Soil Data Package - BNA	1	Done	ug/	⁄kg
BATCH: 33327	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0249132
	1800	CLP - percent moisture	<	0.1	*	
BATCH: 33386	SAMPLE	ID: Method Blank	LSG	SAMPLE	NO:	H0249223
•	16858	Petroleum Hydrocarbons		< 20	mg.	/kg



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QUALITY CONTROL REPORT DUPLICATE AND MATRIX SPIKE DATA

BATCH:	33007					LSG SAMPL	E NO: H024	5836
<u>TEST</u> 1801	DETERMINATION CLP pH for Organics Extraction	ORIGINAL RESULT 6.55	DUPLICATE RESULT 6.57	UNITS	RANGE / RPD 0.5	<u>units</u>	MS RESULT	MS %
BATCH:	33127					LSG SAMPL	E NO: H024	6697
TEST 1801	DETERMINATION CLP pH for Organics Extraction	ORIGINAL RESULT 6.48	DUPLICATE RESULT 6.36	UNITS	RANGE / <u>RPD</u> 1.87	UNITS	MS <u>result</u>	MS %
BATCH:	33351	~ ~ ~ ~ * * * * * * * * * *				LSG SAMPL	.E NO: H024	7049
TEST 1801	DETERMINATION CLP pH for Organics Extraction	ORIGINAL RESULT 6.97	DUPLICATE RESULT 6.97	UNITS	RANGE / RPD 0.0	UNITS	MS RESULT	MS % RCVRY

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT VOLATILES DATA PACKAGE ELL1, PKG2

PACE INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 13, 1993

VOLATILE CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG2 MATRIX: SOIL

- 1. Data calculation on Forms I through VIII were performed using Finnigan Formaster software (Version 3.2) for the 3/90 protocols. Occasional differences in rounding are encountered due to initial rounding of numerical data by Formaster. The effects of this rounding are considered minor and no serious errors in the final data are expected. The EPA views the use of Formaster software satisfactory for CLP type data package generation.
- 2. See enclosed list for definitions of flags.
- 3. The samples were analyzed within the hold time period for this package.
- 4. No tentatively identified compounds or raw-data were required by the client.
- 5. The matrix spike 02-SB18-B-A-MS (H246770MS) contained no acetone; however, due to inhomogenity of the sample, the matrix spike duplicate (H246771MSD) did show to contain acetone. No further corrective action was taken.
- 6. In sample 02-SB16-B-A (H245835), the BFB surrogate failed due to matrix interference. When the sample was reanalyzed, the matrix effect was confirmed with BFB failing again. Due to the inhomogenity of the sample, the first analysis revealed acetone at 200 ug and the second analysis was clean. Both Form 1's are included in the package.
- 7. Five laboratory control samples were run within this package. Refer to Form 3. Each was compared to the method blank run just prior to it to obtain spike recoveries. Laboratory control sample #3 (LCS3) failed the BFB surrogate. This LCS was run in conjunction with reanalysis for sample 02-SB16-B-A (H245835) to confirm matrix interference. Recoveries for the LCS were good and no further corrective action was taken.
- 8. Initially, five grams of sample 02-SB26-B-A (H247049) was analyzed and target analytes exceeded the calibration range, as signified by the "E" flag on Form 1. A one gram aliquot was analyzed (02-SB26-B-A-DL) and the target compounds were within calibration range. A "D" flag indicates the analyte was calculated from a dilution on Form 1. No further corrective action was taken and both Form 1's are included in the data package.
- 9. The laboratory control samples were spiked with more compounds than the usual matrix spike. Therefore, the Form 1's indicate results for these target compounds.

(from Statement of Work for Organics Analysis, Rev. 3/90)

- A This flag indicates that a TIC is a suspected aldol-condensation product.
- B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do <u>not</u> apply this flag; instead use a laboratory-defined flag, discussed below.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, for example, a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.
- J Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3 J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

- \aleph Indicates the presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X.) The lower of the two values is reported on Form I and flagged with a "P."
- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24%_moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$(330 \text{ U}) \times df$$
, where $D = 100 - \% \text{ moisture}$ and $df = dilution$ factor

For example, at 24% moisture,
$$D = \frac{100 - 24}{100} = 0.76$$

For soil samples subjected to GPC cleanup procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the specified volume, this fact must be accounted for in reporting the sample quantitation limit.

X — Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X." If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample. The laboratory-defined flags are <u>limited to</u> the letters "X," "Y," and "7."

The combination of flags "EU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

ELLINGTON AFB TRACKING CHART

CASE I.D.:	ELL1
SDG:	PKG2
MATRIX:	SOIL

MATRIX:	SOIL		
PACE NUMBER	CLIENT I.D.	DATE SXD	E DATE RCVD
NUMBER	I.D. 02-SB16-B-A 02-SB20-B-A 02-SB20-B-A MS 02-SB20-B-A MSD 02-SB01-A-A 02-FB01-A-A 02-FB02-A-A 02-TB01-A-A 02-TB02-A-A 02-SB18-B-A 02-SB15-A-A 02-SB15-B-A 02-SB15-C-A 02-FD15-C-A 02-TB03-A-A 02-SB19-A-A 02-SB19-A-A 02-SB18-B-A 02-SB18-B-A	8/5 	8/5
H247049 H247050 H247051	02-SB26-B-A 02-RB05-A-A 02-TB06-A-A	8/13	8/14

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 5.0 (g/mL) 6 Lab File ID: 0VP08139302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND			ATION U		ū	
;	74 07 7	O			!		;	-
1	74-87-3	-Chloromethane			ł	10	:U	1
	75 01 4	-Bromomethane			!	10	I U	ł
i	75-01-4	-Vinyl Chloride			 	10	I U	1
i	75-00-3	-Chloroethane			!	10	!U	1 1
i	75 07 2	TIPLIIVIENE INCOPICA				7	¦ J	1
i	6/-64-1	-Acetone			!	10	! U	ì
i	/3-13-0	-Caroon Dishitide			· ·	10	10	1
i	/5-35-4	-1.1-Dichloroethene			!	10	:U	1
1	/5-34-3	-1.1-Dichloroethane			1	10	10	1
i	340-37-0	-1.2-Dichloroethene	(tota	1)_	†	10	ŧυ	1
i	67-66-3	-Chloroform			:	10	!U	;
ł	107-06-2	-1,2-Dichloroethane			!	10	I U	1
- i	78-93-3	-2-Butanone			!	10	10	i
ŀ	71-55-6	-l.l.l- richloroeth	ane		!	10	10	:
i	56-23-5	-Carbon Tetrachlori	de		!	10	ΙÜ	;
i	75-27-4	-Bromodichlorometha	20		1	10	ΙÜ	
• ;	78-87-5	-1.2-Dichlorooronan	9		į	10	10	•
i	10001-01-2	-Cls-l.J-Dichloroor	nene		. !	10	:0	•
- i	/7-()1-6	-Trichlornethene			1	10	i U	1
1	124-48-1	-Ulbromorblorometha	20		1	10	10	1
i	/9-00-5	-1.1.2-Trichloroath	300				10	1
1	71-43-2	-Benzene				10	-10	1
ŀ	10061-02-6	Benzenetrans-1,3-Dichloro	700000	_	;	10	10	1
į	75-25-2	-Bromoform	o i op en		— <u>'</u>	10		1
;	108-10-1	-Bromoform_ -4-Methyl-2-Pentanor	10		;		:U	i
1	591-78-6	-2-Hexanone	· E		:	10	10	i
•	127-18-4	-Tetrachloroethene_			;	10	ίU	ì
•	79-34-5	1,1,2,2-Tetrachlor			i	10	i U	i
•	108-88-3	Toluene	Jethan	e	<u>:</u>	10	¦U	i
ì	108-90-7	Toluene			<u>!</u>	10	IU	ł
•	100-41-4	Chlorobenzene			!	10	l U	1
ı	100-41-4	Ethylbenzene			!	10	:U	1.
1	1770 70 7	Styrene			!	10	10	1
1	1000-20-/	-Xylene (total)			;	10	!U	ŧ
' -					!		1	ł

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

02FB01AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08139302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME : RT

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: PACE INC. Contract: ELLINGTON

02FB02AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 5.0 (g/mL) 6 Lab File ID: 0VP08139303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND			ATION UI ug/Kg)			Q
!	74-87-3	Chloromethane			1		1	1
i	74-83-9	Bromomethane	······································		<u>:</u>	10	١U	ł
1	75-01-4	Vinyl Chloride			—— <u>!</u>	10	l U	!
1	75-00-3	Chloroethane			<u>;</u>	10	IU	i
	/3-07-/	Methylana Chlasida			1	10	١U	ŀ
i	67-64-1	Acetone Childhide			— <u> </u>	10	10	1
i	75-15-0	AcetoneCarbon Disulfide			<u>.</u>	10	١U	i
		1,1-Dichloroethene				10	١U	, !
i	75-34-3	1.1-Dichloroethane			!	10	: U	i
į	540-59-0	-1,2-Dichloroethene			<u>.</u>	10	i U	1
i	67-66-3	Chlorofar-	(tota	1)_	!	10	۱U	i
i	107-06-2	Chloroform				10	: U	1
į	78-93-3	-1,2-Dichloroethane			!	10	:U	1
i	71-55-6	2-Butanone 1,1,1-Trichloroeth				10	: U	i
:	54-23-5		ane		!	10	!U	i
i	75-27-4	Carbon Tetrachlori Bromodichlorometha	de		!	10	10	;
i	78-87-5	1 2 p:1-	ne		!	10	IU	1
į	10041-01-5	-1,2-Dichloropropan	e			10	ΙU	1
•	78-01-4	cis-1,3-Dichloropr	obeue_		1	10	١U	1
1	124-49-1	Trichloroethene			!	10	10	i
	78-00-5	Dibromochlorometha	ne		!	10	۱U	1
t i	71-43-3	-1,1,2-Trichloroeth	ane		;	10	10	ł
:	10041.07.7	-Benzene			!	10	1U	;
1	75-75-7	-trans-1,3-Dichloro	probeu	e	!	10	: U	!
	100 10 1	Bromoform			!	10	١U	1
a t	50170	-4-Methyl-2-Pentanor	าย			10	10	1
•	177 10 4	-2-Hexanone			1	10	١U	1
	12/				3	10	10	:
•	/ 7-34-5	-1,1,2,2-Tetrachlor	pethan	e	!	10	IU	;
i	108-88-3	Toluene			1	10	!U	1
1	100-70-/	-Chiorobenzene			1	10	IU	
i	100-41-4				 ;	10	10	
î	100-42-5	-Styrene			į.	10	: U	!
į	1330-20-7	-Xylene (total)				10	: U	!

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02FB02AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

DVP08139303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

! RT ! EST. CONC. ! Q COMPOUND NAME CAS NUMBER

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02RB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	NO. COMPOUND (ug/L or ug/Kg) t		<u>D</u>
			1
74-87-3	Chloromethane	10	l U
74-83-9	Bromomethane	10	l U
75-01-4	Vinyl Chloride	10	l U
75-00-3	Chloroethane	10	: U
75-09-2	Methylene Chloride		ŀJ
67-64-1	Acetone Carbon.Disulfide	: 10	١U
75-15-0	Carbon Disulfide	10	١U
75-35-4	1,1-Dichloroethene	(10	!U
75-34-3	1,1-Dichloroethane	10	١U
540-59-0	1,2-Dichloroethene (to	tal) 10	l U
67-66-3	Chloroform 1,2-Dichloroethane	! 10	IU
107-06-2	1,2-Dichloroethane	10	¦U
78-93-3	2-Butanone	10	l U
71-55-6	1,1,1-Trichloroethane_	i 10	ΙU
56-23-5	Carbon Tetrachloride_	10	:U
	Bromodichloromethane		١U
	1,2-Dichloropropane		18
	cis-1,3-Dichloropropen		۱.
	Trichloroethene		:U
	Dibromochloromethane_		:U
	1,1,2-Trichloroethane_		: U
	Benzene		.10
10061-02-6	trans-1,3-Dichloroprop	ene i 10	1U
	Bromoform		ΙU
108-10-1	4-Methy1-2-Pentanone	10	IU
591-78-4	2-Hexanone	10	١Ū
127-18-4	Tetrachloroethene	10	10
	1,1,2,2-Tetrachloroeth		i U
	Toluene		10
	Chlorobenzene		ΙÜ
	Ethylbenzene		10
100-41-4	Ctypopo	10	10
1770 70 7	Styrene	10	10
1000-20-7	Xylene (total)		10

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

Matrix: (soil/water) SOIL

SDG No.: PKG2

Lab Sample ID: H245839

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/13/93

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |

SAMPLE NO.

OZRBOZAA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139306

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ua/L or ua/Ka) UG/KG CAS NO. COMPOUND

G

	CAS NO.	COMPLIAND	(ug/L or	, mā\kā)	06/KG	ţ	بد
-				ŀ	_	ŀ	1
1	74-87-3	Chloromethane		!	10	ŀυ	1
ŧ	74-83-9	Bromomethane	· · · · · · · · · · · · · · · · · · ·	!	10		1
	75-01-4	Vinyl Chloride		1	10		1
		Chloroethane			10		;
		Methylene Chlorid			6		ì
	67-64-1	Acetone Carbon Disulfide_		;	10	١U	1
	75-15-0	Carbon Disulfide_	· · · · · · · · · · · · · · · · · · ·	!	10		. 1
	75-35-4	1,1-Dichloroethen	P	!	10	١U	ł
	75-34-3	1,1-Dichloroethan	e	!	10	10	1
		1,2-Dichloroethen	e (total)	!	10	١U	- 1
	67-66-3	Chloroform		¦	10	١U	1
	107-06-2	1,2-Dichloroethan	P	;	10	۱U	1
					10	¦ U	ŧ
	71-55-6	2-Butanone 1,1,1-Trichloroet	nane	1	10	١U	!
	56-23-5	Carbon Tetrachlor	ide	:	10	١U	<u>t</u> 1
	75-27-4	Bromodichlorometh	ane	1	10	١U	i
	78-87-5	1,2-Dichloropropa	ne	I	10	10	1
	10061-01-5	cis-1,3-Dichlorop	ropene	1	10	ΙU	- 1
	79-01-6	Trichloroethene		:	10	١U	;
	124-48-1	Dibromochlorometh	ane	!	10	١U	1
	79-00-5	1,1,2-Trichloroet	nane	ŧ	10	:U	t 3
	71-43-2	Benzene		{	10	: U	1
	10061-02-6	trans-1,3-Dichlore	opropene	!	10	: U	ţ
	75-25-2				10	١U	Ţ
	108-10-1	4-Methyl-2-Pentan	one		10	١U	ţ 1
	591-78-6	2-Hexanone			10	: U	1
		Tetrachloroethene			10	١U	1
		1,1,2,2-Tetrachlo			10	١U	1
		Toluene			10	١U	:
	108-90-7	Chlorobenzene		:	10	10	1
	100-41-4	Ethylbenzene	4		10	ΙU	i i
	100-42-5	~ 1			10	ΙŪ	1
	1330-20-7	Xylene (total)			10	10	:
	in the second se	Ayrene (Obour)				;	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

O2RBOZAA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139306

Level: (low/med) LOW

1

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

CAS NUMBER

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME

| RT | EST. CONC. | Q |

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

02RB05AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08179302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or			(J.
74.07.7			1		ł	
74-87-3	Chloromethane		!	10	۱U	ł
/4-63-7	Bromomethane			10	. —	i
75-01-4	Vinyl Chloride		;	10		;
73-00-3	Chloroethane Methylene Chlorid		}	10	: U	;
/3-07-2	Methylene Chlorid	e	 	6	ŀJ	1
6/-64-1	Acetone Carbon Disulfide_		!	31	1	;
75-15-0	Carbon Disulfide_		!	10	١U	1
/5-35-4	l.1-Dichloroethen	P	•	10	1U	:
75-34-3	1,1-Dichloroethan	e	i	10	10	1
540-57-0	1.2-Dichlornethen	e (totall	!	10	ŀυ	1
67-66-3	Chloroform 1,2-Dichloroethan		I	10	: U	
107-06-2	1,2-Dichloroethan	e	ŧ	10	١U	
/8-93-3	2-Butanone		!	10	10	
/1-22-6	l.l.l- richloroet	hane	!	10	۱.	
56-23-5	Carbon Tetrachlor	ide	:	10	ΙÜ	
75-27-4	Bromodichlorometh	ane	1	10	ΙÜ	
78-87-5	1,2-Dichloropropa	ne	1	10	١Ū	
10061-01-5	cis-1.3-Dichlorop	ropene	1	10	ΙÜ	
79-01-6	Trichloroethene		!	10	: 0	
124-48-1	Dibromochlorometh	ane	!	10	10	
79-00-5	1,1,2-Trichloroet	hane		10	10	
71-43-2	Benzene		 ;	10	↓U	
10061-02-6	trans-1,3-Dichlor	nnranene	 ;	10	10	
75-25-2	Bromoform		 ;	10	10	
108-10-1	4-Methy1-2-Pentan	one	<u>'</u>	10	10	
591-78-6	2-Hexanone	One	'	10	: U	
127-18-4	Tetrachloroethene		 ;	10		
79-34-5	1,1,2,2-Tetrachlo	poothana	<u>'</u>		ΙU	
108-88-3	Toluene	Log mane_		10	! U	
108-90-7	Cp) coches		i	10	10	
100-41-4	Chlorobenzene		<u>'</u>	10	I U	1
100-41-4	Ethylbenzene			2	ŀЈ	
1770 00 7	Styrene		!	10	!U	ł
1330-20-7	Styrene Xylene (total)		<u>.</u>	10	!U	
<u> </u>			i		_	:

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08179302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |

SAMPLE NO.

02SB16BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: DVP08149301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

14

14

14

14

14

14

14

14

IU

l U

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10

:U

l U

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	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
ŧ					i i
		Chloromethane	t	14	10
		Bromomethane		14	:U
		Vinyl Chloride		14	10
		Chloroethane		14	١U
ŀ	75-09-2	Methylene Chlori	de¦	14	:U
1	67-64-1	Acetone	2	70	1
ŧ.	75-15-0	Carbon Disulfide	<u> </u>	14	!U

| 75-35-4-----1,1-Dichloroethene____ | 75-34-3-----1,1-Dichloroethane____ : 540-59-0-----1,2-Dichloroethene (total)___ : 67-66-3-----Chloroform_ : 107-06-2----1,2-Dichloroethane____ | 78-93-3----2-Butanone | 71-55-6----1,1,1-Trichloroethane____

14 !U 14 : U : 56-23-5-----Carbon Tetrachloride____ 14 : U : 75-27-4----Bromodichloromethane____ 14 IU : 78-87-5-----1,2-Dichloropropane____ 14 10 : 10061-01-5----cis-1,3-Dichloropropene____ 14 111

: 79-01-6-----Trichloroethene____ 124-48-1----Dibromochloromethane : 79-00-5-----1,1,2-Trichloroethane____ ! 71-43-2----Benzene_

: 10061-02-6----trans-1,3-Dichloropropene__ | 75-25-2----Bromoform

| 108-10-1----4-Methyl-2-Pentanone____ : 591-78-6----2-Hexanone_

| 127-18-4----Tetrachloroethene____ | 79-34-5----1,1,2,2-Tetrachloroethane___

: 108-88-3-----Toluene 108-90-7----Chlorobenzene____ : 100-41-4----Ethylbenzene____

1 100-42-5----Styrene_ | 1330-20-7----Xylene (total)__

:U

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB16BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 5.0 (o/mL) 6

Lab File ID: OVP08149301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

CAS NUMBER

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME : RT

! EST. CONC. : Q ;

SAMPLE NO.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

02SB16BARE

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08159301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 27

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND			ATION UI ug/Kg)		Q	
:	74-87-3	Chloromethane			1	1.4	1	!
	74-83-9	Bromomethane	·		 ¦	14 14	U	i
;	75-01-4	Vinyl Chloride			;	14	10	i
	75-00-3	Chloroethane			 :	14	יט	i
Ì	/ >-/ >	Methylene Chioride			!	14	10	!
1	67-64-1	Acetone Carbon Disulfide			:	14	10	1
į,	75-15-0	-Carbon Disulfide			:	14	10	1
į	/3-33-4	-l.l-Dichloroethene				14	10	•
1	75-34-3	-1,1-Dichloroethane				14	10	:
<u>t</u>	540-59-0	-1,2-Dichloroethene	(tota	1)	!	14	IU	į
- [67-66-3	Chloroform_ 1,2-Dichloroethane				14	iu	i
1	107-06-2	-1,2-Dichloroethane			1	14	: U	i
1	78-93-3	-2-Butanone				14	ίŪ	
1	71-55-6	-1,1,1-Trichloroeth	ane		1	14	ΙÜ	i
i	56-23-5	-Carbon Tetrachlori	de		:	14	10	i
i	75-27-4	-Bromodichlorometha	ne			14	10	i
٠ ;	78-87-5	-1,2-Dichloropropan	e		ł	14	ΙÜ	i
- 1	10061-01-5	-cis-1.3-Dichloroor	00000		ı	14	١U	Ì
ì	79-01-6	-Trichloroethene -Dibromochlorometha			;	14	10	i
ļ	124-48-1	-Dibromochlorometha	ne		<u>;</u>	14	!U	:
į	/ /	-1.1.2-1richlorooth	200		,	14		1
ŀ	71-43-2	-Benzene				14	-IU	Ì
1	10061-02-6	-Benzene -trans-1,3-Dichloro	propen	e	;	14		i
i	75-25-2	-Bromoform_ -4-Methyl-2-Pentano			1	14	١U	1
į	108-10-1	-4-Methyl-2-Pentano	ne		;	14	10	1
1	271-78-6	-z-Hexanone			!	14	IU	1
ł	12/-18-4	-letrachloroethene			:	14	10	i
ł	79-34-5	-1.1.2.2-Tetrachlor	cethan	e	1	14	١U	1
- {	108-88-3	-Toluene			!	14	l U	1
i	108-90-/	-Chlorobenzene			!	14	l U	1
i	100-41-4	-Ethvlbenzene			1	14	IU	1.
į	100-42-5	-Styrene			1	14	ΙÜ	1
l	1330-20-7	-Xylene (total)			!	14		
l					!		_!	1

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

02SB16BARE

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

% Moisture: not dec. 27

Soil Extract Volume:

Lab Sample ID: H245835RE

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID:

DVP08159301

Date Received: 08/05/93

Level: (low/med) LOW

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm)

(uL)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: CAS NUMBER : COMPOUND NAME ! RT ! EST. CONC. ! Q !

_____;

SAMPLE NO.

| 02SB18BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139308

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	딦

	i	1 1
4-87-3Chloromethane	13	! U
4-83-9Bromomethane	13	10
5-01-4Vinvl Chloride	.; 13	10
5-00-3Chloroethane	: 13	10
5-00-3Chloroethane 5-09-2Methylene Chloride	{ 13	l U
7-64-1Acetone 5-15-0Carbon Disulfide	1 13	l U
5-15-0Carbon Disulfide	13	10
5-35-41,1-Dichloroethene	13	រប
5-34-31,1-Dichloroethane	! 13	IU
40-59-01,2-Dichloroethene (total)	: 13	:U
7-66-3Chloroform	: 13	:U
07-06-21,2-Dichloroethane	1 13	l U
3-93-32-Butanone	13	10
l-55-6l,l,l-!richloroethane	13	!U
6-23-5Carbon Tetrachloride	13	:U
5-27-4Bromodichloromethane	13	l U
3-87-51,2-Dichloropropane	! 13	1 U
DO61-01-5cis-1,3-Dichloropropene	13	١U
7-01-6Trichloroethene	(13	:U
24-48-1Dibromochloromethane	13	١U
7-00-51,1,2-Trichloroethane	1 3	:U
1-43-2Benzene	13	!U
0061-02-6trans-1,3-Dichloropropene	(13	1 U
5-25-2Bromoform	1 13	:U
08-10-14-Methyl-2-Pentanone	13	10
71-78-62-Hexanone	13	: U
27-18-4Tetrachloroethene	; 13	:U
7-34-51,1,2,2-Tetrachloroethane	: 13	IU
08-88-3Toluene	13	10
08-90-7Chlorobenzene	13	l U
00-41-4Ethvlbenzene	13	IU
00-42-5Styrene	13	١U
00-42-5Styrene 330-20-7Xylene (total)	13	IÜ
•	_;	1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

02SB18BA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

DVP08139308

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER !

COMPOUND NAME

: RT : EST. CONC. : Q :

SAMPLE NO.

025B19AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

•			!	1		
	74-87-3	Chloromethane	14	IU		
	74-83-9	Bromomethane	14	10		
	75-01-4	Chloromethane Bromomethane Vinyl Chloride	! 14	i U		
	75-00-3	Chloroethane	14	:U		
	75-09-2	Methylene Chloride	13	ij		
	67-64-1	Acetone	14	١U		
	75-15-0	Carbon Disulfide	14	:U		
	75-35-4	1,1-Dichloroethene	14	!U	•	
	75-34-3	1,1-Dichloroethane	14	10		
	540-59-0	1,2-Dichloroethene (total)	14	ΙU		
	67-66-3			i U		
		1,2-Dichloroethane	14	:U		
	78-93-3	2-Butanone	14	ΙU		
	71-55-6	1,1,1-Trichloroethane	14	ΙU		
	56-23-5	Carbon Tetrachloride	14	10		
	75-27-4	Bromodichloromethane	14	ΙÜ		
		1,2-Dichloropropane		! U		
	10061-01-5	cis-1,3-Dichloropropene	14	i U		
		Trichloroethene		ίU		
	124-48-1	Dibromochloromethane	14	10		
	79-00-5	1,1,2-Trichloroethane	14			
	71-43-2	Benzene	14	-1 U		
	10061-02-6	Benzene trans-1,3-Dichloropropene	14			
	75-25-2	Bromoform	14	IU		
	108-10-1	4-Methyl-2-Pentanone	14	10		
	591-78-6	2-Hexanone	14	I U		
	127-18-4	Tetrachloroethene	14	IU		
	79-34-5	1,1,2,2-Tetrachloroethane	14	ΙÜ		
	108-88-3	Toluene	14	10		
	108-90-7	Chlorobenzene	14	10		
	100-41-4	Ethylbenzene	14	10		
	100-42-5	Styrene	14	10		
	1330-20-7	Xylene (total)	14	10		
	1000 20 /	Ayrene (UUULI)	1 1 1			

1 E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

025B19AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08149303

Date Received: 08/11/93

Level: (low/med) LOW

% Moisture: not dec. 27

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

02RB03AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149306

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	СОМРОИИТ	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
		1	!

		•		
		1	E S	ŀ
74-87-3	-Chloromethane	.1) IU	!
74-83-9	-Bromomethane	.1	10	;
75-01-4	-Vinyl Chloride	.1	10	
75-00-3	-Chloroethane	10	10	
75-09-2	-Methylene Chloride	.1 4	- J	ł
67-64-1	-Acetone	1 10	10	; 1
75-15-0	-Carbon Disulfide	10	10	:
75-35-4	-1,1-Dichloroethene	1 10	· IU	i
75-34-3	-1,1-Dichloroethane	10	10	;
540-59-0	-1.2-Dichloroethene (total)	10	10	1
67-66-3	-Chloroform	10	10	1
107-06-2	-Chloroform_ -1,2-Dichloroethane	10	10	!
78-93-3	-2-Butanone	10	: U	1
/1-55-6	-1,1,1-Trichloroethane	10	10	1
56-23-5	-Carbon Tetrachloride	10	10	ŧ
75-27-4	-Bromodichloromethane	10	: U	- 1
78-87-5	-1,2-Dichloropropane	10	: 10	1
10061-01-5	-cis-1,3-Dichloropropene	10	: U	1
79-01-6	-Trichloroethene	10	10	ŧ
124-48-1	-Dibromochloromethane	10	10	1
79-00-5	-1,1,2-Trichloroethane	10	: U	1
71-43-2	-Benzene	1.0	١U	1
10061-02-6	-trans-1.3-Dichloropropene	10	ΙÜ	
75-25-2	-Bromoform	10	IU	1
108-10-1	-4-Methy1-2-Pentanone	10		i
591-78-6	-2-Hexanone	! 10		:
127-18-4	-Tetrachloroethene	10		i
79-34-5	-1,1,2,2-Tetrachloroethane	10		i
108-88-3	-Toluene	10	١U	1
エロローグローノーーーーー	-Chiorobenzene	10		
100-41-4	-Ethvlbenzene	10		i
100-42-5	-Styrene	10		
1330-20-7	-Xylene (total)	10		i
		;	!	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB03AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08149306

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found:

(ug/L or ug/Kg) UG/KG

COMPOUND NAME RT | EST. CONC. | Q | ! CAS NUMBER 1

SAMPLE NO.

02SB20BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08149302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 25

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.		COMPOUND	CONCENTRATION UNI (ug/L or ug/Kg) U	Q		
1			1		1	
1	74-87-3	Chloromethane	!	13	١U	1
!	74-83-9	Bromomethane		13	ŧυ	ŧ
\$	75-01-4	Vinyl Chloride		13	ŧυ	ł
		Chloroethane		13	۱U	ł
I	75-09-2	Methylene Chloride		13	:U	1
	67-64-1			13	ΙU	1

: 75-15-0-----Carbon Disulfide_ ! 75-35-4----1,1-Dichloroethene____ : 75-34-3-----1,1-Dichloroethane__ : 540-59-0-----1,2-Dichloroethene (total) : : 67-66-3-----Chloroform____ 107-06-2----1,2-Dichloroethane_ | 78-93-3----2-Butanone____ : 71-55-6-----1,1,1-Trichloroethane____: : 56-23-5-----Carbon Tetrachloride_____: : 75-27-4----Bromodichloromethane *: 78-87-5-----1,2-Dichloropropane_

13 IU 13 10 13 10 13 IU 13 : U 13 -10 13 ٠U

13

13

13

13

13 !U

:U

- : U

10

ΙU

: 10061-01-5----cis-1,3-Dichloropropene____ : 79-01-6----Trichloroethene : 124-48-1-----Dibromochloromethane 1 79-00-5-----1,1,2-Trichloroethane____ | 71-43-2----Benzene_____ | 10061-02-6----trans-1,3-Dichloropropene___

13 ١U 13 HU 10 13 13 -: 10 13 ٠U

| 75-25-2----Bromoform___ 108-10-1----4-Methyl-2-Pentanone : 591-78-6----2-Hexanone_

13 ١U 13 10 13 ١U 13 : U

127-18-4----Tetrachloroethene : 79-34-5----1,1,2,2-Tetrachloroethane ! 108-88-3----Toluene_____

13 : U 13 ٠U

| 108-90-7-----Chlorobenzene____ l 100-41-4----Ethylbenzene____

13 ÷υ 13 IU 13 ΙU

10

13

| 100-42-5-----Styrene____ | 1330-20-7-----Xylene (total)_

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

02SB20BA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08149302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec. 25

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found:

(ug/L or ug/Kg) UG/KG

i		i		i		i		i	
ţ	CAS NUMBER	;	COMPOUND NAME	1	RT	EST.	CONC.	1 Q 1	
1		== ====		== ==	======	:======	======	=====	
١.		;		!_		.}		!!	

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

O2SB26BA

Lab Name: PACE INC.

Contract: ELLINGTON

SDG No.: PKG2 Case No.: ELL1

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0VP08179301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND	(ug/L or ug/Kg) UG/KG	Ø
------------------	-----------------------	---

	CAS NO.	COMPOUND (ug	/ L U1.	uġ/Kǧ)	00710	,	إدا
				!		1	
į	74-87-3	Chloromethane			13		i
l	74-83-9	Bromomethane			13		l
i	75-01-4	Vinyl Chloride			13	IU	1
		Chloroethane		¦	13	: U	1
		Methylene Chloride		!	13	١U	ŀ
1	67-64-1	Acetone Carbon Disulfide		ŧ	370	ŀΕ	I
ŀ	75-15-0	Carbon Disulfide		:	13	l U	1
		1,1-Dichloroethene			13	١U	ł
f	75-34-3	1,1-Dichloroethane		!	13	:U	i i
i	540-59-0	1,2-Dichloroethene (t	otal)_	!	13	١U	ŀ
		Chloroform		!	13	١U	;
		1,2-Dichloroethane		!	13	١U	!
		2-Butanone		l	47	1	;
		1,1,1-Trichloroethane			13		ł
		Carbon Tetrachloride			13	:U	}
		Bromodichloromethane_			13	I U	1
1	78-87-5	1,2-Dichloropropane_		I	13	ΙU	1
		cis-1,3-Dichloroprope			13	۱U	ł
į	79-01-6	Trichloroethene			13	IU	;
ł	124-48-1	Dibromochloromethane_		i	13	۱U	1
		1,1,2-Trichloroethane		i	13	: U	;
į	71-43-2			1	13	١U	1
ţ		trans-1,3-Dichloropro	pene_	!	13	١U	1
i		Bromoform		1	13	١U	ŧ
1	108-10-1	4-Methyl-2-Pentanone		1	13	l U	i
!	591-78-6	2-Hexanone		;	13	۱U	ŧ
1	127-18-4	Tetrachloroethene		!	13	: U	:
ì	79-34-5	1,1,2,2-Tetrachloroet	hane_	l	13	١U	\$ \$
1	108-88-3	Toluene		!	2	ΙJ	;
i		Chlorobenzene			13	١U	1
1	100-41-4	Ethylbenzene		1	170	ŀ	;
1	100-42-5	Styrene		4	13	١U	1
		Xylene (total)			43	1	1
ì		-		!		!	!

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

DVP08179301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

FORM I VOA-TIC

SAMPLE NO.

02SB26BADL

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049DL

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: OVP08249301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/24/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Q

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

		, -	
		i i	ŀ
74-87-3	Chloromethane	63	i U
74-83-9	Bromomethane	1 63	١U
75-01-4	Vinyl Chloride	63	10
75-00-3	Chloroethane	1 63	١U
75-09-2	Methylene Chloride	1 63	: U
67-64-1	Acetone Carbon Disulfide	540	; D
75-15-0	Carbon Disulfide	63	:U
75-35-4	1.1-Dichloroethene	! A3	IU
75-34-3	1,1-Dichloroethane	63	i U
540-59-0	1,1-Dichloroethane 1,2-Dichloroethene (total)	63	i U
67-66-3	Chloroform	63	: U
107-06-2	1,2-Dichloroethane	63	: U
78-93-3	2-Butanone	65	! D
71-55-6	2-Butanone 1,1,1-Trichloroethane	63	10
56-23-5	Carbon Tetrachloride	63	: U
75-27-4	Bromodichloromethane	63	l U
78-87-5	1,2-Dichloropropane	63	l U
10061-01-5	cis-1,3-Dichloropropene	63	:U
79-01-6	Trichloroethene	63	lu l
124-48-1	Dibromochloromethane	43	:U :
79-00-5	1,1,2-Trichloroethane	63	lu i
71-43-2	Benzene	63	10
10061-02-6	trans-1.3-Dichloropropene	63	¨(U)
75-25-2	Bromoform	63	IU I
108-10-1	4-Methvl-2-Pentanone	63	i U
591-78-6	2-Hexanone	63	10
127-18-4	Tetrachloroethene	63	IU I
79-34-5	1,1,2,2-Tetrachloroethane		iu i
108-88-3	Toluene	63	i U
108-90-7	Chlorobenzene	63	10
100-41-4	Ethylbenzene	79	ID
100-42-5	Styrene	63	1 <i>D</i>
1330-20-7	Xylene (total)	63	. —
acoute acts /	Ayrene (boot)	1	10

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BADL

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049DL

Sample wt/vol: 1.0 (g/mL) 6

Lab File ID: 0VP08249301

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec. 21

Date Analyzed: 08/24/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

| RT | EST. CONC. | Q | 1 COMPOUND NAME CAS NUMBER

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

OZTBO1AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245842

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139304

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (up/L or up/Ko) HB/KB

CAS NO.		/L or ug/Kg)		Ø	
i 1		ŀ		1	
1 74-87-3	Chloromethane	l	10	IU	i
1 74-83-9	Bromomethane		10	IU	1
1 75-01-4	Vinyl Chloride	l	10	ΙU	ł
1 75-00-3	Chloroethane	<u> </u>	10	I U	ŧ
75-09-2	Chloroethane Methylene Chloride		10	:U	· ·
67-64-1	Acetone Carbon Disulfide	i i	10	١U	ŧ
1 75-15-0	Carbon Disulfide	<u> </u>	10	: U	1
1 75-35-4	1,1-Dichloroethene	¦	10	ΙU	1
1 75-34-3	1,1-Dichloroethane		10	ΙU	i
1 540-59-0	1.2-Dichloroethene (t	otal) :	10	ΙU	į
1 67-66-3	Chloroform		10	!U	;
107-06-2	Chloroform_ 1,2-Dichloroethane	t	10	١U	!
78-93-3	2-Butanone	i	10	١U	ŧ
1 71-55-6	1,1,1-Trichloroethane		10	!U	ł
: 56-23-5	Carbon Tetrachloride	;	10	١U	1
75-27-4	Bromodichloromethane	}	10	۱U	-
78-87-5	1,2-Dichloropropane	:	10	10	\$
1 10061-01-5	cis-1,3-Dichloroprope	ne ¦	10	:U	+
79-01-6	Trichloroethene	· ·	10	ΉU	;
124-48-1	Dibromochloromethane_	<u> </u>	10	١U	ł
79-00-5	1,1,2-Trichloroethane	· ·	10	:U	1
71-43-2	Benzene		10	:U	1
10061-02-6	trans-1,3-Dichloropro	pene :	10	i U	ł
75-25-2	Bromoform		10	: U	1
108-10-1	4-Methyl-2-Pentanone_	1	10	I U	
591-78-6	2-Hexanone	:	10	: U	•
127-18-4	Tetrachloroethene	1	10	10	i
79-34-5	1,1,2,2-Tetrachloroet	hane i	10	ΙU	
	Toluene		10	: U	1
108-90-7	Chlorobenzene	į	10	I U	ł
100-41-4	Ethylbenzene		10	iu	i.
100-42-5	Styrene	·	10	ΙU	;
1330-20-7	Xylene (total)		10	10	
1		 ;			,

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1000055 SAMPLE NO.

02TB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245842

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139304

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

CAS NUMBER

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME

RT | EST. CONC. | Q |

1 🗛 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02TB02AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245843

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08139305

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

		CONCENTRATION UNITS:
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG

74-87-3						
74-83-9Bromomethane	i	74 637 7	0/1 /	! !	1	:
75-01-4	i	74-87-3	Unioromethane		. –	i
75-00-3	i	74-83-9	Bromomethane			i
75-09-2Methylene Chloride	ŀ	75-01-4	Vinyl Chloride			1
67-64-1	i	75-00-3	Chloroethane			ł
75-15-0	í	75-09-2	Methylene Chloride			i
75-35-4	ŀ	67-64-1	Acetone		-	ł
75-34-31,1-Dichloroethane	i	75-15-0	Carbon Disulfide	10		ł
540-59-01,2-Dichloroethene (total)	i	75-35-4	-1,1-Dichloroethene	10	١U	ł
67-66-3	i	75-34-3	1,1-Dichloroethane	10	10	1
78-93-32-Butanone	1	540-59-0	1,2-Dichloroethene (total)	10	ŀU	1
78-93-32-Butanone	į	67-66-3	Chloroform	10	10	1
78-93-32-Butanone	i	107-06-2	-1,2-Dichloroethane	10	١U	1
56-23-5Carbon Tetrachloride	ŧ	78-93-3	2-Butanone	10	ΙU	1
56-23-5Carbon Tetrachloride	i	71-55-6	-1,1,1-Trichloroethane	10	10	į
78-87-5	ì	56-23-5	Carbon Tetrachloride	10	:U	i
10061-01-5cis-1,3-Dichloropropene	į	75-27-4	-Bromodichloromethane	10	۱u	1
10061-01-5cis-1,3-Dichloropropene	l	78-87-5	-1,2-Dichloropropane	10	١U	ŧ
79-01-6Trichloroethene	1	10061-01-5	-cis-1,3-Dichloropropene	10	١U	1
124-48-1Dibromochloromethane	ī	79-01-6	Trichloroethene	10	l U	1
79-00-51,1,2-Trichloroethane	i	124-48-1	-Dibromochloromethane	10	١U	}
71-43-2Benzene	1	79-00-5	-1,1,2-Trichloroethane		:U	1
10061-02-6trans-1,3-Dichloropropene	1	71-43-2	-Benzene		40	ŀ
75-25-2Bromoform	i	10061-02-6	-trans-1,3-Dichloropropene	10	١U	1
108-10-14-Methyl-2-Pentanone	i	75-25-2	-Bromoform	10	١U	1
591-78-62-Hexanone	į	108-10-1	-4-Methyl-2-Pentanone	10	:U	!
127-18-4Tetrachloroethene	1	591-78-6	-2-Hexanone	10	١U	1
79-34-51,1,2,2-Tetrachloroethane	į	127-18-4	-Tetrachloroethene		: U	- 1
108-88-3Toluene 10 U	į	79-34-5	-1.1.2.2-Tetrachloroethane	10		1
108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene	:	108-88-3	Toluene			i
! 100-41-4Ethylbenzene		108-90-7	-Chlorobenzene		-	1
100-42-5Styrene	1	100-41-4	-Ethylbenzene	10		-
1330-20-7Xylene (total) 10 U	;	100-42-5	Styrene	10		!
l	i	1330-20-7	-Xvlene (total)	. 10		į
	i				!	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02TB02AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245843

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVPOB139305

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: not dec.

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found:

(ug/L or ug/Kg) UG/KG

		1	1		1
CAS NUMBER	COMPOUND NAME	! RT	: EST. C	ONC. ! Q	1
=======================================		=======	:======	==== ===	==
		1	1	ŧ	1

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02TB03AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246044

Sample wt/vol: 5.0 (g/mi) G

Lab File ID: OVP08139307

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

COMPOUND

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

G

Soil Extract Volume:

CAS NO.

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CHO NO.	00/11 00/10 10/19/2 0/ 4/9	g,g, 00,0	٠,	
;			1	<u> </u>	
:	74-87-3	Chloromethane	10	١U	
:	74-83-9	Bromomethane	10	: U	
[75-01-4	Vinvl Chloride	10	:U	
	75-00-3	Chloroethane	10	l U	
	75-09-2	Chloroethane Methylene Chloride	_; 10	:U	
	67-64-1	Acetone	10	: U	
	75-15-0	Acetone Carbon Disulfide	[1 10	:U	
	75-35-4	1,1-Dichloroethene	[10	:U	
	75-34-3	1.1-Dichloroethane	_; 10	:U	
	540-59-0	1,1-Dichloroethane 1,2-Dichloroethene (total)	_{ 10	:U	
	67-66-3	Chloroform	_! 10	10	
	107-06-2	1,2-Dichloroethane	10	١U	
	78-93-3	2-Butanone	10	!U	
	71-55-6	2-Butanone 1,1,1-Trichloroethane	10	! U	
	56-23-5	Carbon Tetrachloride	10	١U	
	75-27-4	Bromodichloromethane	10	١U	
		1,2-Dichloropropane		:U	
	10061-01-5	cis-1,3-Dichloropropene	_1 10	! U	
	79-01-6	Trichloroethene	_{10	l U	
	124-48-1	Dibromochloromethane	_! 10	۱U	
	79-00-5	1,1,2-Trichloroethane	_! 10	l U	
	71-43-2	Benzene	_: 10	١U	
	10061-02-6	trans-1,3-Dichloropropene	_: 10	l U	
	75-25-2	Bromoform	_: 10	l U	
	108-10-1	4-Methyl-2-Pentanone	_{10	l U	
		2-Hexanone		١U	
		Tetrachloroethene		10	
	79-34-5	1,1,2,2-Tetrachloroethane	_1 10	١U	
	108-88-3	Toluene	_; 10	l U	
	108-90-7	Chlorobenzene	10	١U	
	100-41-4	Ethylbenzene	10	١U	
	100-42-5	Styrene	_} 10	١U	
	1330-20-7	Styrene Xylene (total)	10	١U	
			_{	!	

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

OZTBOJAA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246044

Sample wt/vol: 5.0 (q/mL) G

Lab File ID: OVP08139307

Level: (low/med) LOW

GC Column: CAP ID: 0.530 (mm)

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/13/93

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME | RT | EST. CONC. | Q |

SAMPLE NO.

OZTBO4A

Lab Name: PACE INC.

: 100-41-4-----Ethylbenzene___

: 1330-20-7-----Xylene (total)_

| 100-42-5----Styrene_

Contract: ELLINGTON

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Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246708

Sample wt/vol: 5.0 (q/mL) G

Lab File ID: OVP08149307

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

		TOMPEMIKHLION ONTIS:					
	CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/KG	(3
1				1		i	
	74-87-3	Chloromethane			10	١U	1
	74-83-9	Bromomethane		l	10	١U	;
	75-01-4	Vinvl Chloride		1	10	١U	1
	75-00-3	Chloroethane		1	10	١U	1
	- 75-09-2	Methvlene Chloride		1	10	10	!
	67-64-1	Acetone Carbon Disulfide		!	10	١U	;
	75-15-0	Carbon Disulfide_		!	10	10	1
	75-35-4	1,1-Dichloroethene		ł	10	l U	!
	75-34-3	1,1-Dichloroethane		!	10	:U	8 1
	540-59-0	1,2-Dichloroethene	(total)_	:	10	ΙU	1
	67-66-3	Chloroform		!	10	١U	: :
	107-06-2	1,2-Dichloroethane		ł	10	ŧIJ	i f
	78-93-3	2-Butanone		1	10	ΙU	;
	71-55-6	2-Butanone 1,1,1-Trichloroeth	ane		10	:U	!
	56-23-5	Carbon Tetrachloria	de	1	10	:U	- 1
	75-27-4	Bromodichlorometha	ne	!	10	١U	:
	78-87-5	1,2-Dichloropropan	е	i i	10	l U	1
	10061-01-5	cis-1,3-Dichloropro	opene	l	10	10	1
	79-01-6	Trichloroethene			10	ΙU	ļ
	124-48-1	Dibromochlorometha	ne		10	ΙU	1
	79-00-5	1.1.2-Trichloroeth	ane	-	10	ΙU	;
	71-43-2	Benzene trans-1,3-Dichloro			10	ΨU	ŀ
	10061-02-6	trans-1,3-Dichloro	propene		10	IU	ť
	75-25-2	Bromoform	•		10	١U	1
	108-10-1	4-Methvl-2-Pentano	ne	1	10	ΙŪ	1
	591-78-6	2-Hexanone		 }	10	١U	1
	127-18-4	Tetrachloroethene_			10	ΙÜ	ŀ
	79-34-5	1,1,2,2-Tetrachlore	oethane		10	ΙÜ	1
	108-88-3	Toluene		_ _i	10	ΙŪ	1
	108-90-7	Chlorobenzene			10	IШ	i

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02TB04A

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246708

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: DVP08149307

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: not dec.

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

ŧ				l	!		!_		i
i	=======================================	=======================================	========	=====	=== ===		== =	:====	ŀ
i	CAS NUMBER !	COMPOUND	NAME	: RT	1 E	EST. CONC	. !		i
ł	j			i	i		i	i	i

SAMPLE NO.

02TB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247051

Sample wt/vol:

5.0 (g/mL) G

Lab File ID:

OVP08179303

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

	CAS NO.		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG			!
ī		THE REPORT OF THE PARTY OF THE	i t		!	
1		Chloromethane		10	ΙU	1
i	74-83-9	Bromomethane	<u> </u>	10	:U	ţ
1	75-01-4	Vinyl Chloride		10	:U	ł
1	75-00-3	Chloroethane	}	10	10	1
1	75-09-2	Methylene Chloride	1	10	l U	1
1	67-64-1	Acetone		10	ŀU	;
į	75-15-0	Carbon Disulfide_		10	l U	
1	75-35-4	1,1-Dichloroethene		10	۱U	i
ł	75-34-3	1,1-Dichloroethane		10	10	Ì
1	540-59-0	1,2-Dichloroethene	(total) :	10	; U	1
;	67-66-3	Chloroform		10	I U	
į	107-06-2	1,2-Dichloroethane	I I	10	١U	1
1	78-93-3	2-Butanone	1	10	ΙU	1
1	71-55-6	1,1,1-Trichloroetha	ine ;	10	ΙŪ	i
	m / m m m					•

| 10061-02-6----trans-1,3-Dichloropropene____ ! 75-25-2----Bromoform_ | 108-10-1----4-Methyl-2-Pentanone____ : 591-78-6----2-Hexanone__ 127-18-4----Tetrachloroethene : 79-34-5-----1,1,2,2-Tetrachloroethane___ : 108-88-3----Toluene__ : 108-90-7-----Chlorobenzene____ l 100-41-4-----Ethylbenzene____ | 100-42-5-----Styrene_

: 56-23-5-----Carbon Tetrachloride__

† 79-01-6-----Trichloroethene____

| 1330-20-7----Xylene (total)____

: 71-43-2----Benzene_

124-48-1----Dibromochloromethane

: 79-00-5-----1,1,2-Trichloroethane__

| 75-27-4----Bromodichloromethane____

| 78-87-5-----1,2-Dichloropropane____

: 10061-01-5----cis-1,3-Dichloropropene

10 111 10 IU 10 10 10 ΙU

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02TB06AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247051

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVP08179303

Level: (low/med) LOW

GC Column: CAP ID: 0.530 (mm)

Date Received: 08/14/93

% Moisture: not dec.

Date Analyzed: 08/17/93

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

	i		1	ł	1	1
CAS NUMBER	: COMPOUND	NAME	RT	EST.	CONC. :	Q
		=========	;=======	======	=====;	=====
	1		1	1	1	1

SAMPLE NO.

VBLKOM

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOM

Sample wt/vol: 5.0 (q/mL) G

Lab File ID:

DVB08139301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

Date Analyzed: 08/13/93

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q : 74-87-3-----Chloromethane_____ 10 10 1 74-83-9----Bromomethane_____ 10 111 : 75-01-4-----Vinyl Chloride_____ 10 10 : 75-00-3-----Chloroethane_ 10 IU 10 10 : 75-09-2----Methylene Chloride_____ 10 111 | 67-64-1-----Acetone 111 : 75-15-0-----Carbon Disulfide 10 : 75-35-4-----1,1-Dichloroethene___ 10 10 : 75-34-3-----1,1-Dichloroethane_____ 10 IU : 540-59-0-----1,2-Dichloroethene (total) 10 !U : 67-66-3-----Chloroform__ 10 : U : 107-06-2----1,2-Dichloroethane___ :11 10 : 78-93-3-----2-Butanone 10 10 : 71-55-6----1,1,1-Trichloroethane____ 10 !U 10 !U | 56-23-5-----Carbon Tetrachloride 10 111 : 75-27-4----Bromodichloromethane____ 111 : 78-87-5-----1,2-Dichloropropane____ 10 : 10061-01-5----cis-1,3-Dichloropropene____ 10 10 10 : U : 79-01-6----Trichloroethene____ 124-48-1-----Dibromochloromethane__ IU 10 10 10 : 79-00-5-----1,1,2-Trichloroethane____ 40 : 71-43-2-----Benzene 10 ! 10061-02-6----trans-1,3-Dichloropropene____ 10 10 10 IU | 75-25-2----Bromoform_ | 108-10-1----4-Methyl-2-Pentanone_____ 10 10 111 : 591-78-6----2-Hexanone 10 127-18-4----Tetrachloroethene 10 10 : 79-34-5-----1,1,2,2-Tetrachloroethane____: 10 111 | 108-88-3----Toluene 10 !U 10 111 | 108-90-7-----Chlorobenzene : 100-41-4-----Ethylbenzene_____ 10 :U ! 100-42-5----Styrene_ 10 : U IU 10 | 1330-20-7----Xylene (total)__

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLKOM

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOM

Date Analyzed: 08/13/93

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08139301

Level: (low/med) LOW

Date Received:

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

% Moisture: not dec.

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

______|

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

VBLKOP

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOP

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0VB08149301

Date Analyzed: 08/14/93

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	G	Q
ŧ	· · · · · · · · · · · · · · · · · · ·		1		ł	
- 1	74-87-3	Chloromethane	<u> </u>	10	۱U	1
ì	74-83-9	Bromomethane	;	10	: U	ł
1	75-01-4	Vinyl Chloride_	!	10	l U	· ·
ł	75-00-3	Chloroethane	ļ	10	111	1
ŀ	75-09-2	Methylene Chlor	ide !	10	: U	;
į	67-64-1	Acetone		10	١U	ţ
1	75-15-0	Acetone Carbon Disulfide	<u> </u>	10	: U	ŧ
i	75-35-4	1,1-Dichloroeth	ene :	10	IU	1
į	75-34-3	1,1-Dichloroeth:	ane :	10	:U	i
- 1	540-59-0	1.2-Dichloroeth:	ene (total) :	10	١U	;
;	67-66-3	Chloroform		10	:U	;
i	107-06-2	Chloroform_ 1,2-Dichloroeth	ane!	10	١U	;
i	/8-93-3	2-Butanone	}	10	١U	- 1
1	71-55-6	1,1,1-Trichloroe	thane	10	۱U	1
- 1	56-23-5	Carbon Tetrachlo	oride !	10	١U	1
i	75-27-4	Bromodichloromet	hane !	10	١U	1
ľ	78-87-5	1,2-Dichloroprop	ane :	10	10	- 1
i	10061-01-5-	cis-1,3-Dichloro	propene :	10	١U	1
I	79-01-6	Trichloroethene		10	١U	1
ŀ	124-48-1	Dibromochloromet	hanel	10	١U	;
ŧ	79-00-5	1,1,2-Trichloro	thane !	10	l U	1
ŀ	71-43-2	Benzene		10	ŀU	1
1	10061-02-6-	trans-1.3-Dichle	ronronene !	10	:U	;
i	75-25-2	Bromoform_		10	¦U	ł
I	108-10-1	Bromoform 4-Methyl-2-Penta	anone !	10	!U	
ŧ	591-78-6	2-Hexanone		10	ΙU	1
ŀ	127-18-4	Tetrachloroether	ne !	10	l U	ì
ŧ	79-34-5	1,1,2,2-Tetrach	oroethane	10	ΙU	:
:	108-88-3	Toluene	!	10	: U	į
ļ	108-90-7	Chlorobenzene	*	10	:0	1
1	100-41-4	Ethylbenzene	·	10	10	ı ı
:	100-42-5	Styrene		10	: U	1
1	1330-20-7	Styrene Xylene (total)_	i t	10	. –	i
1	1330-20-7	xyrene (total)_	i	10	ļU	į 1
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1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLKOP.

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOP

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

OVB08149301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/14/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME RT : EST. CONC. : Q :

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKOQ

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

% Moisture: not dec.

Lab Sample ID: VBLKOQ

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08159301

Level: (low/med) LOW

Date Received:

CONCENTRATION UNITS:

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND (ug/L	or ug/Kg) UG/KG	Q
74-97-3	Chlorosethane	1	1
74-83-9	Chloromethane	10	
75-01-4	Vinyl Chloride	10	· –
75-00-3	Chloroethane	10	
75-09-2	Methylene Chloride	10	
67-64-1	Acetone	10	. —
75-15-0	Carbon Disulfide	10	· · ·
75-35-4	1,1-Dichloroethene	10	
75-34-3	1,1-Dichloroethane	10	
,,	1,2-Dichloroethene (tota	10	
47-44-3	Chloroform	10	
107-06-2	1,2-Dichloroethane	10	
78-93-3	2-Butanone	10	10
70 70 0 71-55-6	1,1,1-Trichloroethane		
,, 00 0 54-73-5	Carbon Tetrachloride	10	U U
75-27-4 -	Bromodichloromethane	10	; U
78-87-5	1,2-Dichloropropane	10	; U
10061-01-5	cis-1,3-Dichloropropene_		
79-01-6	Trichloroethene	10	! []
174-48-1	Dibromochloromethane		10
79-00-5	1,1,2-Trichloroethane		10
71-43-2	Benzene		10
10041-02-4	trans-1,3-Dichloropropen	10	:U
75-25-2	Bromoform	e! 10	i U
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-4	?		l U
127-18-4	2-Hexanone		l U
79-34-5	1,1,2,2-Tetrachloroethan	10	10
100-00-7		e 10	١U
108-80-7	Toluene		18
100-70-7	Chlorobenzene		!U
100-41-4	Ethylbenzene		i U
100742737777 1770.90.7	Styrene Xylene (total)	1 10	١U
1330-20-/	xylene (total)	10	١U

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLK00

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOQ

Date Analyzed: 08/15/93

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08159301

Level: (low/med) LOW

Date Received:

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

% Moisture: not dec.

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

		1		i	i	1
CAS NUMBER	COMPOUND	14:11:1			CONC.	
=======================================	=======================================	====================================	======	====== 	======;	; ====:

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKOS

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08179301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or				۵
!	74-07-3	Ch1====		:	10	1	!
1	74-87-3	Chloromethane		—_ <u>;</u>	10	10	i
1	75-01-4	- Uiewl Chleride		<u>'</u>	10	١U	i
•	75-00-3	Vinyl Chloride Chloroethane			10	i u	i
:	75-08-3	Methylene Chloride		:	10 10	: U	i
!	67-64-1	-Acetone		:	10	: U	i
•	75-15-0	Acetone Carbon Disulfide_	***	;	10	10	1
!	75-35-4	-1,1-Dichloroethene		'	10	10	,
:	75-34-3	-1,1-Dichloroethane		;	10	10	i.
!	540-59-0	-1,2-Dichloroethene	(+o+=1)		10	10	
	67-66-3	-Chloroform	· (COCAI)	—;	10	10	
!	107-06-2	-1,2-Dichloroethane)		10	: 0	,
:	78-93-3	-2-Butanone	4	:	10	: U	!
!	71-55-6	-1,1,1-Trichloroeth	1200		10	: U	
:	56-23-5	-Carbon Tetrachlori	de	—:	10	:0	•
	75-27-4	-Bromodichlorometha	ne	;	10	: U	i
	78-87-5	-1,2-Dichloropropar		— ;	10	: U	;
	10061-01-5	-cis-1,3-Dichloropr	opene	;	10	ΙU	
	79-01-6	-Trichloroethene		—;	10	IU	i
	124-48-1	-Dibromochlorometha	ne	;	10	ΙŪ	
	79-00-5	-1,1,2-Trichloroeth	ane		10	ΙŪ	;
	71-43-2	-Benzene			10	10	i
	10061-02-6	-trans-1,3-Dichloro	propene		10	10	i
	75-25-2	-Bromoform			10	١U	1
	108-10-1	-4-Methyl-2-Pentano	ne	;	10	ΙÜ	1
i i	591-78-6	-2-Hexanone			10	ΙÜ	1
	127-18-4	-Tetrachloroethene	7	1	10	ΙU	1
!	79-34-5	-1,1,2,2-Tetrachlor	oethane		10	ŀυ	1
	108-88-3	-Toluene			10	10	!
1	108-90-7	-Chlorobenzene			10	١U	;
1	100-41-4	-Ethylbenzene	*******		10	ΙŪ	i
	100-42-5	-Styrene	· · · · · · · · · · · · · · · · · · ·	;	10	10	
	1330-20-7	-Styrene -Xylene (total)		—;	10	: U	
1		,		·		1	1
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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLKOS

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOS

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVB08179301

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/17/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Ka) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

VBLKOW

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOW

Date Analyzed: 08/24/93

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVB08249301

Level: (low/med) LOW

Date Received:

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume:

% Moisture: not dec.

(uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		
7.07.7			<u> </u>	
/4-8/-3 7/-03-0	Chloromethane		· -	
/4-03-7 75	Bromomethane		–	
75-01-4 75-00-7	Vinyl Chloride			
75-00-3 75-00-3	Chloroethane Methylene Chloride_			
/3-07-2 -7/-1	Methylene Chioride_		. –	
75-15-0	Acetone Carbon Disulfide			
75-15-0 75-35-4	1,1-Dichloroethene_			
75 33 4 75-34-3	1,1-Dichloroethane_	10		
540-59-0	1,2-Dichloroethene	(total)	·	
67-66-3	Chloroform	1000	· -	
107-06-2	1,2-Dichloroethane_	10		
78-93-3	2-Butanone	10		
71-55-6	1,1,1-Trichloroethar	ne : 10		
56-23-5	Carbon Tetrachloride	10		
75-27-4	Bromodichloromethan	10		
78-87-5	1,2-Dichloropropane	10		
10061-01-5	cis-1,3-Dichloroprop	pene i 10		
79-01-6	Trichloroethene	10		
124-48-1	Dibromochloromethane	10		
79-00-5	1,1,2-Trichloroethar	10		
71-43-2	Benzene	10		
10061-02-6	trans-1,3-Dichloropt	opene 10		
75-25-2	Bromoform	10		
108-10-1	4-Methyl-2-Pentanone	10		
591-78-6	2-Hexanone	10		
127-18-4	Tetrachloroethene	10		
79-34-5	1,1,2,2-Tetrachloroe	thane : 3		
108-88-3	Toluene	10		
108-90-7	Chlorobenzene	10		
100-41-4	Ethylbenzene	10		
100-42-5	Styrene	10		
1330-20-7	Xylene (total)	10	: -	
	,			

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

VBLKOW

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOW

Sample wt/vol: 5.0 (g/mL) 6

Lab File ID: OVB08249301

Level: (low/med) LOW

Date Received:

Date Analyzed: 08/24/93

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME | RT | EST. CONC. | Q

SAMPLE NO.

02SB18BAMS

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246770MS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: DVP08139309

13

13

13

13

13

13

13

IU

! U

10

10

111

l U

l U

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

| 127-18-4----Tetrachloroethene__

| 108-90-7-----Chlorobenzene_

100-41-4----Ethylbenzene___

| 1330-20-7-----Xylene (total)_

: 108-88-3----Toluene__

| 100-42-5----Styrene_

1 79-34-5----1,1,2,2-Tetrachloroethane_

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

	CAS NO.	COMPOUND	CONCENTRATIO		Q	
1			!		;	
- 1	74-87-3	Chloromethane		13	l U	ŧ
ì	/4-83-9	Bromomethane	!	13	١U	;
ì	/5-01-4	Vinvl Chloride	ţ	13	!U	:
1	/5-00-3	Chloroethane	1	13	۱U	1
i	/3-07-2	Methylene Lblorid	a !	13	١U	}
ŀ	67-64-1	Acetone	1	4.7	١U	1
i	/5-15-0	Carbon Disulfide	1	13	:U	1
i	75-35-4	1.1-Dichloroether	- !	13	١U	:
- 1	75-34 - 3	1.1-Dichloroethan	e !	1.3	:U	;
1	540-59-0	1,2-Dichloroethen	e (total) :	13	ιи .	1
1	67-66-3	Chloroform		13	١U	i
i	107-06-2	1.2-Dichloroethan	e !	13	ΙU	1
1	78-93-3	2-Butanone	i	13	IU	\$
i	/1-55-6	1.1.1-Trichloroet	hane :	13	10	
1	56-23-5	Carbon Tetrachlor	ide !	13	10	:
ı	75-27-4	Bromodichlorometh	ane	13	i U	
• ;	78-87-5	1,2-Dichloropropa	ne :	13	10	:
- 1	10061-01-5	cis-1.3-Dichlorop	ropene !	13	10	į
į	79-01-6	Trichloroethene	!	13	10	!
į.	124-48-1	Dibromochlorometh:	ane !	13	10	
1	79-00-5	1.1.2-Trichloroeth	י פחכר	13	: U	
Į Į	71-43-2	Benzene	1	13	10	1
1	10061-02-6	trans-1,3-Dichlore	nronene !	13	; U	ı
1	75-25-2	Bromoform	-p. upenei	13	10	1
;	108-10-1	4-Methyl-2-Pentano	700	13	10	i }
i	591-78-4	2-Hexanone	JITEi		. –	i
•	372 70 0	z nekanone	i	13	!U	i

SAMPLE NO.

02SB18BAMSD

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

: 67-64-1-----Acetone_

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246771MSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: OVP08139310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec. 21 Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

(uL)

	CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG		Q
ŧ			1		ŀ
		Chloromethane		13	: U
- 1	74-83-9	Bromomethane		13	:U
1	75-01-4	Vinyl Chloride		13	ŧŪ
g g	75-00-3	Chloroethane		13	10

: 75-15-0-----Carbon Disulfide____ | 75-35-4----1,1-Dichloroethene____ : 75-34-3-----1,1-Dichloroethane_ : 540-59-0-----1,2-Dichloroethene (total)____ : 67-66-3-----Chloroform_ | 107-06-2----1,2-Dichloroethane______ | 78-93-3----2-Butanone | 71-55-6----1,1,1-Trichloroethane____

: 75-09-2----Methylene Chloride____

13

57

13

13

1U

1

:U

IU

: 56-23-5-----Carbon Tetrachloride____ ! 75-27-4----Bromodichloromethane_____: ·: 78-87-5-----1,2-Dichloropropane____ | 10061-01-5----cis-1,3-Dichloropropene____ : 79-01-6----Trichloroethene

13 111 13 10 13 10 13 !U 13 10

124-48-1----Dibromochloromethane____ | 79-00-5----1,1,2-Trichloroethane_____ | 71-43-2----Benzene___ 10061-02-6----trans-1,3-Dichloropropene

1U 13 13 10 13 10 13 IU

| 75-25-2----Bromoform____ 108-10-1----4-Methyl-2-Pentanone | 591-78-6----2-Hexanone__

13 111 13 10 13 !U

| 127-18-4----Tetrachloroethene | 79-34-5-----1,1,2,2-Tetrachloroethane____

13 1 U 13 l U

108-88-3----Toluene : 108-90-7-----Chlorobenzene__ 13 10 13 !U 13 :U

1 100-41-4----Ethylbenzene____ : 100-42-5-----Styrene_ : 1330-20-7-----Xylene (total) ;

13 l U 13 10

SAMPLE NO.

LCS1

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

OVT08139303

Level: (low/med) LOW

Date Received:

Date Analyzed: 08/13/93

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

% Moisture: not dec.

Soil Aliquot Volume:

(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG : 74-87-3-----Chloromethane____ 10 10 1 74-83-9-----Bromomethane 10 10 | 75-01-4-----Vinyl Chloride____ 10 10 : 75-00-3-----Chloroethane 10 !U | 75-09-2----Methylene Chloride_____ 39 ! 67-64-1-----Acetone 10 :U : 75-15-0-----Carbon Disulfide 10 10 1 75-35-4-----1,1-Dichloroethene____ 1U 10 : 75-34-3-----1,1-Dichloroethane__ 42 1 540-59-0-----1,2-Dichloroethene (total) 36 67-66-3-----Chloroform___ 44 107-06-2----1,2-Dichloroethane 43 | 78-93-3----2-Butanone_ 10 : U 71-55-6----1,1,1-Trichloroethane____ 46 : 56-23-5-----Carbon Tetrachloride____ 40 | 75-27-4----Bromodichloromethane____ 50 : 78-87-5-----1,2-Dichloropropane_ 41 1 10061-01-5----cis-1,3-Dichloropropene 44 1 79-01-6-----Trichloroethene_ 10 :U 124-48-1-----Dibromochloromethane___ 43 | 79-00-5-----1,1,2-Trichloroethane 44 ; 71-43-2----Benzene_ LU 10 | 10061-02-6----trans-1,3-Dichloropropene 1 46 : 75-25-2-----Bromoform 53 108-10-1----4-Methyl-2-Pentanone____ ΙU 10 | 591-78-6----2-Hexanone ¦ J | 127-18-4----Tetrachloroethene 35 1 | 79-34-5-----1,1,2,2-Tetrachloroethane___ 108-88-3----Toluene_ : U 10 : 108-90-7-----Chlorobenzene__ 10 ΙU 100-41-4----Ethylbenzene____ 46 - 1 100-42-5-----Styrene_ 0.71J | 1330-20-7-----Xylene (total)_ 33

SAMPLE NO.

LCS2

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS2

Sample wt/vol: 5.0 (g/mL) G

Lab File ID:

DVT08149302

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

CAS NO.

GC Column: CAP ID: 0.530 (mm)

Date Analyzed: 08/14/93

Dilution Factor: 1.0

Soil Extract Volume: (uL)

COMPOUND

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	-			•
		1	!	
74-87-3	Chloromethane	; 10		1
74-83-9	Bromomethane	_ 10	10	1
/5-01-4	Vinyl Chloride	! 10	· · · · ·	1
/5-00-3	Chloroethane	: 10	10	:
/3-07-2	Methylene Chloride	· ! 53	1	1
67-64-1		_ 10	: "	
75-15-0	Carbon Disulfide	(10	· · · · U	1
/5-35-4	1.1-Dichloroethene	! 10	10	1
75-34-3	1,1-Dichloroethane	_; 52		:
340-37-0	1,2-Dichloroethene (total)	_ 	i	1
67-66-3	Chloroform	! 50	1	` ;
107-06-2	1,2-Dichloroethane	 ; 57	- ;	1
78-93-3	2-Butanone	! 10	ŧυ	i
71-55-6	1,1,1-Trichloroethane	55		ì
56-23-5	Carbon Tetrachloride	: 49		i
75-27-4	Bromodichloromethane	1 56		1
78-87-5	1,2-Dichloropropane	48		i
10061-01-5-	cis-1.3-Dichloronronene	! 54	-	i
79-01-6	TrichloroetheneDibromochloromethane	10		ì
124-48-1	Dibromochloromethane	26		į
79-00-5	1,1,2-Trichloroethane	50	-	
71-43-2	Benzene		-	1
10061-02-6-	Benzene trans-1,3-Dichloropropene	54	. –	•
75-25-2	Bromoform	65	-	
108-10-1	4-Methyl-2-Pentanone	10		
591-78-6	2-Hexanone		. –	1
127-18-4	Tetrachloroethene	50		i 1
79-34-5	1,1,2,2-Tetrachloroethane	_, 63		1
100-00-7	T-1	_, 03		
100-00-3	Toluene	_! 10		i .
100-70-/	Chlorobenzene	_! 10		;
100-41-4	Ethylbenzene	_ 55		;
100-42-5	Styrene		١U	ŀ
1330-20-7	Xylene (total)	40	1	1

SAMPLE NO.

LCS3

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS3

Sample wt/vol: 5.0 (g/ml) 6

Lab File ID: OVTO8159303

Level: (low/med) LOW

Date Received:

CONCENTRATION UNITS:

% Moisture: not dec.

Date Analyzed: 08/15/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

74-87-3	CAS NO.	COMPOUND (L	ıō∕L or	ug/Kg)	UG/KG	G	Ď
74-83-9				ŀ		1	
75-01-4	74-87-3	Chloromethane		'			i
75-00-3	74-83-9	Bromomethane		ł			- 1
75-09-2	75-01-4	Vinyl Chloride		;	10	l U	1
67-64-1	75-00-3	Chloroethane		;		I U	1
75-35-4	75-09-2	Methylene Chloride_		!	59	į	1
75-35-4	67-64-1	Acetone		!	10	١U	ŀ
75-35-4	75-15-0	Carbon Disulfide		!	10	10	ļ
75-34-3	75-35-4	1.1-Dichloroethene		;	10	:U	1
540-59-01,2-Dichloroethene (total) 56 67-66-3	75-34-3	1.1-Dichloroethane		:	50	1	1
67-66-3	540-59-0	1.2-Dichloroethene (total)	;	56	ł	i
78-93-3 2-Butanone	67-66-3	Chloroform		:	47	i	!
78-93-3 2-Butanone	107-06-2	1,2-Dichloroethane_		1	52	1	-
56-23-5Carbon Tetrachloride 45 75-27-4Bromodichloromethane 52 78-87-51,2-Dichloropropane 46 10061-01-5cis-1,3-Dichloropropene 52 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 50 79-00-51,1,2-Trichloroethane 49 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methyl-2-Pentanone 4 591-78-62-Hexanone 5 127-18-4Tetrachloroethene 50 79-34-5Toluene 10 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 54 100-42-5	78-93-3	2-Butanone		:	10	ΙU	;
56-23-5Carbon Tetrachloride 45 75-27-4Bromodichloromethane 52 78-87-51,2-Dichloropropane 46 10061-01-5cis-1,3-Dichloropropene 52 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 50 79-00-51,1,2-Trichloroethane 49 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methyl-2-Pentanone 4 591-78-62-Hexanone 5 127-18-4Tetrachloroethene 50 79-34-5Toluene 10 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 54 100-42-5	71-55-6	1,1,1-Trichloroethan	e	:	50	!	:
75-27-4Bromodichloromethane 52 78-87-51,2-Dichloropropane 46 10061-01-5cis-1,3-Dichloropropene 52 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 50 79-00-51,1,2-Trichloroethane 49 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methy1-2-Pentanone 4 591-78-62-Hexanone 5 127-18-4Tetrachloroethene 50 108-88-3Toluene 10 108-90-7Chlorobenzene 10 100-41-4Ethylbenzene 54 100-42-5Styrene 10	56-23-5	Carbon Tetrachloride		- 1	45	1	;
78-87-51,2-Dichloropropane 46 10061-01-5cis-1,3-Dichloropropene 52 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 50 79-00-51,1,2-Trichloroethane 49 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methyl-2-Pentanone 4 591-78-62-Hexanone 5 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 10 108-88-3	75-27-4	Bromodichloromethane	ı	ł	52	;	- 1
10061-01-5cis-1,3-Dichloropropene	78-87-5	1,2-Dichloropropane		1	46	1	1
79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 50 79-00-51,1,2-Trichloroethane 49 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methy1-2-Pentanone 4 J 591-78-62-Hexanone 5 J 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 54 100-41-4Ethylbenzene 54 100-42-5	10061-01-5	cis-1,3-Dichloroprop	ene	ŧ	52	!	- 1
124-48-1	79-01-6	Trichloroethene		1	10	١U	!
79-00-51,1,2-Trichloroethane 49 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methyl-2-Pentanone 4 591-78-62-Hexanone 5 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 10 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 54 100-42-5Styrene 10	124-48-1	Dibromochloromethane			50	1	1
71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 50 75-25-2Bromoform 71 108-10-14-Methyl-2-Pentanone 4 J 591-78-62-Hexanone 5 J 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 54 I 100-41-4Ethylbenzene 54 I 100-42-5	79-00-5	1,1,2-Trichloroethan	е		49	1	!
75-25-2Bromoform	71-43-2	Benzene		1	10	١U	1
75-25-2Bromoform	10061-02-6	trans-1,3-Dichloropr	opene	:	50	ŧ	- 1
108-10-14-Methyl-2-Pentanone 4 J 591-78-62-Hexanone 5 J 127-18-4Tetrachloroethene 50 I 79-34-51,1,2,2-Tetrachloroethane 10 IU 108-88-3Toluene 10 IU 108-90-7Chlorobenzene 54 I 100-41-4Ethylbenzene 54 I 100-42-5	75-25-2	Bromoform			71	ŀ	1
591-78-62-Hexanone	108-10-1	4-Methv1-2-Pentanone			4	¦ J	1
127-18-4Tetrachloroethene 50	591-78-6	2-Hexanone		į	5	ł J	1
79-34-51,1,2,2-Tetrachloroethane	127-18-4	Tetrachloroethene		1	50	1	
108-88-3Toluene;	79-34-5	1.1.2.2-Tetrachloroe	thane		10	ŀΠ	-
108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 54 100-42-5Styrene 10 U	108-88-3	Toluene		1			
100-41-4	108-90-7	Chlorobenzene	***************************************	;	= -		i
: 100-42-5Styrene	100-41-4	Ethylbenzene		─ ;			:
1330-70-7	100-42-5	Styrene		<u>'</u>		•	. !
	1330-20-7	Xvlene (total)		 ;	40	!	

SAMPLE NO.

LCS4

Lab Name: PACE INC.

Contract: ELLINGTON

SDG No.: PKG2

Case No.: ELL1

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G

Lab Sample ID: LCS4

Lab File ID: OVT08179303

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

GC Column: CAP ID: 0.530 (mm)

Date Analyzed: 08/17/93

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (up/l or up/Kp) UG/KG

	CAS NO.		na/r or na/ka)		Q
74-83-9			1		1
75-01-4	74-87-3	Chloromethane	!	10	! U
75-00-3	74-83-9	Bromomethane		10	: U
75-00-3	75-01-4	Vinyl Chloride		10	IU
67-64-1	75-00-3	Chloroethane		10	:U
67-64-1	75-09-2	Methylene Chloride_	!	51	1
75-35-4	67-64-1	Acetone		10	:U
75-35-4	75-15-0	Carbon Disulfide	- I	10	:U
75-34-3	75-35-4	1,1-Dichloroethene	!	10	:U '
540-59-01,2-Dichloroethene (total) 56 67-66-3Chloroform 52 107-06-21,2-Dichloroethane 59 78-93-32-Butanone 1 71-55-61,1,1-Trichloroethane 57 56-23-5Carbon Tetrachloride 52 75-27-4Bromodichloromethane 59 78-87-51,2-Dichloropropane 54 10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethane 10 124-48-1Benzene 10 10061-02-6	75-34-3	1,1-Dichloroethane	· · · · · · · · · · · · · · · · · · ·	53	i
67-66-3Chloroform 52 107-06-21,2-Dichloroethane 59 78-93-32-Butanone 1 71-55-61,1,1-Trichloroethane 57 56-23-5Carbon Tetrachloride 52 75-27-4Bromodichloromethane 59 78-87-51,2-Dichloropropane 54 10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethane 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 127-18-4Tetrachloroethane 50 127-18-4	540-59-0	1,2-Dichloroethene	(total)	56	1
78-93-32-Butanone 1 71-55-61,1,1-Trichloroethane 57 56-23-5Carbon Tetrachloride 52 75-27-4Bromodichloromethane 59 78-87-51,2-Dichloropropane 54 10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 61				52	;
78-93-32-Butanone 1 71-55-61,1,1-Trichloroethane 57 56-23-5Carbon Tetrachloride 52 75-27-4Bromodichloromethane 59 78-87-51,2-Dichloropropane 54 10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 61	107-06-2	1,2-Dichloroethane	1	59	!
71-55-61,1,1-Trichloroethane	78-93-3	2-Butanone	;	1	: J
56-23-5Carbon Tetrachloride 52 75-27-4Bromodichloromethane 59 78-87-51,2-Dichloropropane 54 10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3	71-55-6	1,1,1-Trichloroetha	ne !	57	1
75-27-4	56-23-5	Carbon Tetrachlorid	e:	52	1
78-87-51,2-Dichloropropane 54 10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 591-78-62-Hexanone 3 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 61	75-27-4	Bromodichloromethan	e¦	59	1
10061-01-5cis-1,3-Dichloropropene 57 79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 591-78-62-Hexanone 3 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3	78-87-5	1,2-Dichloropropane	<u> </u>	54	1
79-01-6Trichloroethene 10 124-48-1Dibromochloromethane 54 79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 591-78-62-Hexanone 3 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 61	10061-01-5	cis-1,3-Dichloropro	pene!	57	Į.
124-48-1	79-01-6	Trichloroethene		10	: U
79-00-51,1,2-Trichloroethane 51 71-43-2Benzene 10 10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 591-78-62-Hexanone 3 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 61	124-48-1	Dibromochloromethan	e	54	ŀ
71-43-2Benzene	79-00-5	1,1,2-Trichloroetha	ne :	51	1
10061-02-6trans-1,3-Dichloropropene 57 75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 591-78-62-Hexanone 3 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Chlorobenzene 10 100-41-4Ethylbenzene 61	71-43-2	Benzene		10	١U
75-25-2Bromoform 59 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 3 J 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 61	10061-02-6	trans-1,3-Dichlorop	ropene	57	1
108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 3 J 127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3	75-25-2	Bromoform	!	59	1
591-78-62-Hexanone 3 J 127-18-4Tetrachloroethene 50 I 79-34-51,1,2,2-Tetrachloroethane 60 I 108-88-3Toluene 10 IU 108-90-7Chlorobenzene 10 IU 100-41-4Ethylbenzene 61 I	108-10-1	4-Methyl-2-Pentanon	e ¦	10	:U
127-18-4Tetrachloroethene 50 79-34-51,1,2,2-Tetrachloroethane 60 108-88-3Toluene 10 U 108-90-7Ethylbenzene 61	591-78-6	2-Hexanone		3	ŀЈ
79-34-51,1,2,2-Tetrachloroethane	127-18-4	Tetrachloroethene	1	50	1
108-88-3Toluene	79-34-5	1.1.2.2-Tetrachloro	ethane !	60	1
108-90-7Chlorobenzene				10	:U
100-41-4	108-90-7	Chlorobenzene	· · · · · · · · · · · · · · · · · · ·		
100-42-5Styrene	100-41-4	Ethylbenzene			
1330-20-7Xylene (total) 44	100-42-5	Styrene			•
	1330-20-7	Xvlene (total)	· ·		1
			I		1

SAMPLE NO.

LCS5

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: LCS5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0VT08249302

CONCENTRATION UNITS:

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/24/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	(ug/L or ug/Kg) U0	6/KG	Ø
		‡ ‡		1
	Chloromethane		10	i U
	Bromomethane		10	I U
75-01-4	Vinyl Chloride		10	!U
	Chloroethane		10	U
	Methylene Chlorid		42	1
57-64-1	Acetone Carbon Disulfide_		10	I U
75-15-0	Carbon Disulfide_	. !	10	l U
75-35-4	1,1-Dichloroethen	e	10	!U
75-34-3	1,1-Dichloroethan	e;	44	į.
540-59-0	1,2-Dichloroethen	e (total)	43	:
67-66-3	Chloroform		42	ł
107-06-2	1,2-Dichloroethan	e;	42	1
78-93-3	2-Butanone	[1	¦ J
71-55-6	1,1,1-Trichloroet	hane!	42	1
	Carbon Tetrachlor		41	i
75-27-4	Bromodichlorometh	anet	42	i i
78-87-5	i,2-Dichloropropa	ne:	40	i
	cis-1,3-Dichlorop		41	1
	Trichloroethene_		10	: U
	Dibromochlorometh		37	:
	1,1,2-Trichloroet		39	1
	Benzene		10	LШ
	trans-1,3-Dichlor		39	;
	Bromoform		41	ł
	4-Methyl-2-Pentan		10	ΙU
591-78-6	2-Hexanone	1	3	¦ J
	Tetrachloroethene		37	;
79-34-5	1,1,2,2-Tetrachlo	roethane	40	; B
	Toluene		10	١U
	Chlorobenzene		10	1U
	Ethylbenzene		45	1
				5 i J
	Xylene (total)		32	

BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT SEMIVOLATILES DATA PACKAGE ELL1, PKG2

PACE INCORPORATED HOUSTON ANALYTICAL LABORATORY SEPTEMBER 13, 1993

SEMIVOLATILE CASE COMMENTS BROWN & ROOT ENVIRONMENTAL ELLINGTON AFB PROJECT ELL1, PKG2 MATRIX: SOIL

- 1. Data calculation on Forms I through VIII were performed using Finnigan Formaster software (Version 3.2) for the 3/90 protocols. Occasional differences in rounding are encountered due to initial rounding of numerical data by Formaster. The effects of this rounding are considered minor and no serious errors in the final data are expected. The EPA views the use of Formaster software satisfactory for CLP type data package generation.
- 2. See enclosed list for definitions of flags.
- 3. The samples were extracted and analyzed within the hold time period for this package.
- 4. No tentatively identified compounds or raw-data were required by the client.
- 5. Surrogate recoveries failed for the following samples and blanks: 02-FB01-A-A (H245840), 02-SB19-A-A (H246697), 02-SB26-B-A (H247049), 02-SB20-B-A-MSD (H245838 MSD), SBLKSJ, SBLKSK. Sample 02-FB01-A-A was reextracted and reanalyzed; however the surrogates were spiked at twice the amount. No target compounds were detected and no further corrective action was taken. The reextract for sample 02-SB19-A-A passed surrogate recoveries and no further corrective action was taken. The reextract of sample 02-SB26-B-A passed surrogate recoveries and no further corrective action was taken. The matrix spike duplicate was not reextracted and it was not reanalyzed due to 3/90 protocols regarding spiked samples. The blanks, SBLKSJ and SBLKSK, were reextracted in conjunction with samples 02-SB-26-B-A and 02-SB19-A-A, respectively. They were spiked at twice the amount; however, since the samples did not contain target compounds of interest, no further corrective action was taken. All Form 1's are included in the package.
- 6. The matrix spike (02-SB20-B-A-MS, H245837MS) recoveries were outside the control limits. No corrective action was taken since a laboratory control sample (LCS) had been analyzed with recoveries compared against the extraction blank SBLKSB (H246507). Refer to Form 3.
- 7. On Form 8, the internal standard Acenaphthene-d10 was out of the QC limits for the laboratory control sample.

(from Statement of Work for Organics Analysis, Rev. 3/90)

- A This flag indicates that a TIC is a suspected aldol-condensation product.
- B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by 6C/MS. If 6C/MS confirmation was attempted but was unsuccessful, do <u>not</u> apply this flag; instead use a laboratory-defined flag, discussed below.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response oreater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response preater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, for example, a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 up/L.
- J Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3 J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

- N Indicates the presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X.) The lower of the two values is reported on Form I and flagged with a "p."
- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$(330 \text{ U}) \times df$$
, where $D = 100 - \%$ moisture and $df = dilution$ factor

For example, at 24% moisture,
$$D = \frac{100 - 24}{100} = 0.76$$

$$(330 \text{ U}) \times 10 = 4300 \text{ U}$$
 rounded to the appropriate
0.76 number of significant figures

For soil samples subjected to GPC cleanup procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the specified volume, this fact must be accounted for in reporting the sample quantitation limit.

X — Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X." If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample. The laboratory-defined flags are limited to the letters "X," "Y," and "Z."

The combination of flags "EU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

ELLINGTON AFB TRACKING CHART

CASE I.D.: SDG: MATRIX:	ELL1 PKG2 SOIL		
PACE NUMBER	CLIENT I.D.	DATE SXD	DATE RCVD
H245835 H245836 H245837 H245838 H245839 H245840 H245841 H245842 H245843 H246038 H246039 H246040 H246041 H246042	02-SB16-B-A 02-SB20-B-A 02-SB20-B-A MS 02-SB20-B-A MSD 02-RB01-A-A 02-FB01-A-A 02-FB02-A-A 02-TB01-A-A 02-TB02-A-A 02-SB18-B-A 02-RB02-A-A 02-SB15-A-A 02-SB15-B-A 02-SB15-C-A	8/5	8/5
H246043 H246044 H246697 H246698 H246708	02-FD15-C-A 02-TB03-A-A 02-SB19-A-A 02-RB03-A-A 02-TB04-A	8/11	8/11
H246770 H246771 H247049 H247050 H247051	02-SB18-B-A MS 02-SB18-B-A-MSD 02-SB26-B-A 02-RB05-A-A 02-TB06-A-A	8/6 8/13 	8/6 8/14

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB01AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug	o∕L or uo⁄Ko) L	G/KG	O	
		1		ļ	- ;
108-95-2	Phenol bis(2-Chloroethyl)Ethe	!	330	: U	i
111-44-4	bis(2-Chloroethyl)Ether	r	330	l U	i
95-57-8	2-Chlorophenol	1	330	l U	;
541-73-1	1.3-Dichlorobenzene	<u> </u>	330	١U	;
106-46-7	1.4-Dichlorobenzene	<u> </u>	330	ł U	ŧ
95-50-1	1,2-Dichlorobenzene		330	ΙU	ł
95-48-7	2-Methylphenol		330	١U	1
108-60-1	2.2′-oxybis(1-Chloropro	opane)_¦	330	! U	;
106-44-5	4-Methylphenol		330	:U	1
621-64-7	N-Nitroso-Di-n-Propyla	mine:	330	! U	i
67-72-1	Hexachloroethane		330	; U	:
	Nitrobenzene		330	l U	i
	Isophorone		330	1 U	1
	2-Nitrophenol		330	¦U	į
	2,4-Dimethylphenol		330	: U	:
	bis(2-Chloroethoxy)Met		330	: U	1
	2,4-Dichlorophenol		330	!U	1
	1,2,4-Trichlorobenzene		330	l U	1
	Naphthalene		330	١U	1
106-47-8	4-Chloroaniline	!	330	: U	1
	Hexachlorobutadiene		330	ΙU	;
	4-Chloro-3-Methylpheno		330	:U	1
	2-Methylnaphthalene		330	10	1
	Hexachlorocyclopentadi		330	:U	;
	2,4,6-Trichlorophenol_		330	١U	;
	2,4,5-Trichlorophenol_		1600	: U	1
	2-Chloronaphthalene		330	١U	!
	2-Nitroaniline		1600	ΙU	1
1 88-74-4	Z-Mitroaniine	<u> </u>	330	! U	
131-11-3	Dimethyl Phthalate	[330	10	
	Acenaphthylene		330	: U	
	2,6-Dinitrotoluene		1600	: U	
	3-Nitroaniline		330	10	
! 83-32-9	Acenaphthene	i	رانان	, 0	

FORM I SV-1

SAMPLE NO.

02FB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SCIL

Lab Sample ID: H245840

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG CAS NO. COMPOUND 1600 ١U ; 51-28-5-----2.4-Dinitrophenol____; 1600 : U : 100-02-7-----4-Nitrophenol_____ : U 330 132-64-9----Dibenzofuran_____ 330 : 11 : 121-14-2----2.4-Dinitrotoluene____ 1U 330 : 84-66-2-----Diethylphthalate___ : 7005-72-3----4-Chlorophenyl-phenylether_ 330 HU. 330 10 10 1600 | 534-52-1----4,6-Dinitro-2-Methylphenol____ 1600 : U 10 <u>তত</u> | 86-30-6----N-Nitrosodiphenylamine (1)___! 330 111 ΙU 330 ! 118-74-1-----Hexachlorobenzene_____: ΗU 1600 : 87-86-5----Pentachlorophenol____ 330 : U : 85-01-8-----Phenanthrene____ 330 : U : 120-12-7-----Anthracene_____ 330 : U ! 86-74-8-----Carbazole_____ 330 10 : 84-74-2-----Di-n-Butylphthalate____ 330 : U : 206-44-0-----Fluoranthene_____ : U 330 : 129-00-0-----Pyrene____ 10 : 85-68-7----Butvlbenzylphthalate_____; 330 660 !U : 91-94-1----3.3'-Dichlorobenzidine_____ 330 10 : 56-55-3-----Benzo(a)Anthracene_____ IU 330 218-01-9-----Chrysene_ 10 330 | 117-81-7-----bis(2-Ethylhexyl)Phthalate____ 330 : 0 | 117-84-0-----Di-n-Octyl Phthalate______ 330 : U ; 205-99-2----Benzo(b)Fluoranthene_____ 1 207-08-9-----Benzo(k)Fluoranthene_____; 330 ÷υ 330 : U : 50-32-8-----Benzo(a)Pyrene__ 330 IU : 193-39-5-----Indeno(1,2,3-cd)Pyrene_____ : U 330 : 53-70-3-----Dibenz(a,h)Anthracene_____ 330 : U : 191-24-2-----Benzo(g,h,i)Perylene_____

^{(1) -} Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

OZFB01AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840

Sample wt/vol: 30.0 (o/mL) G

Lab File ID: SBP08239303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME ! RT ! EST. CONC. ! Q

SAMPLE NO.

02FB01AARE

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08309301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N

Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS:

	CAS NO.		rā\r or n		(3
1		and the second s	1		1	1
1	108-95-2	Phenol bis(2-Chloroethyl)Ethe	i	330	١U	ł
i	111-44-4	bis(2-Chloroethy1)Ethe	er!	330	IU	1
ī	95-57-8	2-Chlorophenol	!	330	١U	1
1	541-73-1	1.3-Dichlorobenzene	{	330	! U	;
Į.	106-46-7	1,4-Dichlorobenzene	!	330	: U	1
ŧ	95-50-1	1,2-Dichlorobenzene	!	330	10	i
ŧ	95-48-7	2-Methylphenol		330	١U	1
1	108-60-1	2,2'-oxybis(1-Chlorop	ropane)_:	330	! U	1
ŧ	106-44-5	4-Methylphenol		330	l U	1
ŀ	621-64-7	N-Nitroso-Di-n-Propyla	amine¦	330	; U	1
ı	67-72-1	Hexachloroethane	<u> </u>	330	! U	t t
1	98-95-3	Nitrobenzene	1	330	: U	_ ;
1	78-59-1	Isophorone	}	330	١U	ł
		2-Nitrophenol		330	١U	;
!		2,4-Dimethylphenol		330	١U	ţ
1		bis(2-Chloroethoxy)Me		330	١U	1
I	120-83-2	2,4-Dichlorophenol		330	: U	:
ļ	120-82-1	1.2.4-Trichlorobenzen:	ei	330	١U	1
1	91-20-3	Naphthalene		330	ΙU	t 4
1	106-47-8	4-Chloroaniline	!	330	١U	1
	87-68-3	Hexachlorobutadiene	1	330	١U	1
1	59-50-7	4-Chloro-3-Methylphen	51 ;	330	١U	1
1	91-57-6	2-Methylnaphthalene		330	۱U	ł
		Hexachlorocyclopentad		330	١U	1
		2,4,6-Trichlorophenol		330	١U	ŧ
1	95-95-4	2,4,5-Trichlorophenol	5	1600	: U	1
	91-58-7	2-Chloronaphthalene	1	330	١U	! !
į		2-Nitroaniline		1600	۱.	i E
!		Dimethyl Phthalate		330	١U	ł
		Acenaphthylene		330	ΙU	•
- 1	404-20-2	2,6-Dinitrotoluene		330	١Ü	1
1	00-00-7	3-Nitroaniline		1600	i U	1
1	87-77-8	Acenaphthene		330	١U	-
ı,	00 02 7	ncenaphonene				
ı		EDDM I GU	1	 		

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02FB01AARE

Lab Name: PACE INC.

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Sample ID: H245840RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08309301

Contract: ELLINGTON

Level: (low/med) LOW Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND CAS NO. l U 1600 : 51-28-5----2,4-Dinitrophenol_____ 10 | 100-02-7----4-Nitrophenol_____ 1600 330 : U : 132-64-9-----Dibenzofuran__ 330 : U : 121-14-2----2.4-Dinitrotoluene____ 330 111 : 84-66-2-----Diethylphthalate_ 1 U : 7005-72-3-----4-Chlorophenyl-phenylether___ 330 330 111 86-73-7-----Fluorene 100-10-6----4-Nitroaniline____ 1600 10 111 1600 534-52-1----4,6-Dinitro-2-Methylphenol____! : U 330 | 86-30-6----N-Nitrosodiphenylamine (1)____ 330 111 : 101-55-3-----4-Bromophenyl-phenylether____ | 118-74-1-----Hexachlorobenzene_____ 330 l U : U 1600 | 87-86-5----Pentachlorophenol_____ 330 1 U : 85-01-8-----Phenanthrene_____ 111 330 | 120-12-7-----Anthracene_____ 330 10 : 86-74-8-----Carbazole : 11 | 84-74-2----Di-n-Butylphthalate_____ 330 330 10 : 206-44-0-----Fluoranthene____ 330 10 | 129-00-0-----Pyrene___ 10 330 : 85-68-7----Butylbenzylphthalate_____ !U 660 ! 91-94-1----3,3'-Dichlorobenzidine____ 330 1 U : 56-55-3----Benzo(a)Anthracene_____ 330 10 : 218-01-9-----Chrysene_ 111 330 : 117-81-7-----bis(2-Ethylhexyl)Phthalate____; 330 :U : 117-84-0-----Di-n-Octyl Phthalate____ 330 1 U : 205-99-2----Benzo(b)Fluoranthene_____ 330 10 : 207-08-9-----Benzo(k)Fluoranthene_____ 330 10 ! 50-32-8-----Benzo(a)Pyrene__ 10 330 : 193-39-5-----Indeno(1,2,3-cd)Pyrene____ 330 1 U | 53-70-3-----Dibenz(a,h)Anthracene____ 330 l U | 191-24-2----Benzo(g,h,i)Perylene____

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

2000033

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

02FB01AARE

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245840RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08309301

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/30/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

: CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

02FB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209308

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

108-95-2Phenol	330 330 330	! !U	- !
1 109-95-7Phenol	330	IU	1
1 100-70-2 (Henoi			•
111-44-4bis(2-Chloroethyl)Ether	330		1
95-57-8		l U	i
; 541-73-1	330	١U	1
1 106-46-71,4-Dichlorobenzene	330	!U	1
95-50-11,2-Dichlorobenzene	330	10	1
: 95-48-7	330	ľU	1
: 108-60-12,2'-oxybis(1-Chloropropane)_	330	l U	1
106-44-54-Methylphenol	330	!U	1
{ 621-64-7N-Nitroso-Di-n-Propylamine;	330	!U	1
: 67-72-1Hexachloroethane	330	١U	ŀ
98-95-3Nitrobenzene	330	l U	1
: 78-59-1Isophorone:	330	١U	ŀ
88-75-5	330	l U	1
: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9:: 105-67-9	330	:U	1
111-91-1bis(2-Chloroethoxy)Methane	330	l U	ł
: 120-83-22,4-Dichlorophenol	330	:U	1
: 120-82-11,2,4-Trichlorobenzene	330	יו	- [
91-20-3Naphthalene	330	:U	1
106-47-8	330	i U	1
: 87-68-3Hexachlorobutadiene:	330	! U	1
: 59-50-74-Chloro-3-Methylphenol	330	:U	1
: 91-57-6:	330	!U	ŀ
: 77-47-4Hexachlorocyclopentadiene;	330	! U	ł
: 88-06-22,4,6-Trichlorophenol:	330	:U	1
: 95-95-4	1600	l U	ŀ
91-58-7	330	۱U	1
88-74-4	1600	¦ U	1
! 131-11-3Dimethyl Phthalate	330	١U	-
: 208-96-8	330	l U	!•
606-20-22,6-Dinitrotoluene	330	i U	1
: 99-09-23-Nitroaniline	1600	i U	ļ
83-32-9	330	١U	ł
		_!	_:

FORM I SV-1

SAMPLE NO.

02FB02AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Sample ID: H245841

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209308

Level: (low/med) LOW Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q | 51-28-5----2,4-Dinitrophenol_____ 1600 ΙU ! 100-02-7-----4-Nitrophenol______ 1600 111 132-64-9----Dibenzofuran 330 !U | 121-14-2----2,4-Dinitrotoluene_____ | 84-66-2-----Diethvlohthalate 330 111 | 84-66-2-----Diethylphthalate_ 330 : 11 | 7005-72-3-----4-Chlorophenyl-phenylether___ 330 111 | 86-73-7----Fluorene 330 : U 100-10-6-----4-Nitroaniline____ 1600 10 | 534-52-1----4,6-Dinitro-2-Methylphenol____! 1600 10 | 86-30-6----N-Nitrosodiphenylamine (1)_____ 330 10 : 101-55-3----4-Bromophenyl-phenylether____; 330 IU 118-74-1----Hexachlorobenzene____ 330 10 87-86-5----Pentachlorophenol____ 1600 111 | 85-01-8-----Phenanthrene____ 330 10 | 120-12-7-----Anthracene____ 330 l U °: 86-74-8-----Carbazole_ 330 10 84-74-2----Di-n-Butylphthalate____ 330 !U | 206-44-0----Fluoranthene_____ 330 : U | 129-00-0-----Pyrene____ 330 10 | 85-68-7----Butylbenzylphthalate 330 l U 91-94-1-----3,3'-Dichlorobenzidine____ 660 : U : 56-55-3-----Benzo(a)Anthracene____ 330 10 | 218-01-9-----Chrysene_ 330 : U 117-81-7-----bis(2-Ethylhexyl)Phthalate___ 330 10 117-84-0----Di-n-Octyl Phthalate____ 330 : 11 | 205-99-2----Benzo(b)Fluoranthene_____ 330 : U | 207-08-9----Benzo(k)Fluoranthene____ 330 !U | 50-32-8-----Benzo(a)Pyrene_ 330 111 | 193-39-5-----Indeno(1,2,3-cd)Pyrene_____ 330 111 | 53-70-3-----Dibenz(a,h)Anthracene_____ 330 !U 191-24-2----Benzo(g,h,i)Perylene____ 330 : U

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

02FB02AA

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245841

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209308

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

COMPOUND NAME CAS NUMBER 1 RT | EST. CONC. | Q

FORM I SV-TIC

SAMPLE NO.

02RB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209306

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS: CAS NO. COMPOUND (ua/L or ug/Kg) UG/KG Q

		rant or	agringr	007110		a
;			1		;	
: 1	08-95-2Phenol_ 11-44-4bis(2-Chloroet		1	330	:U	1
1 1	11-44-4bis(2-Chloroet	hyl)Ether	-;	330	١U	í
! 9	75-57-82-Chlorophenol	-	- !	330	ΙU	;
1 5)41-73-11.3-Dichlorobe	nzene	- 1	330	ΙU	!
1 1	.06-46-71,4-Dichlorobe	nzene	-1	330	١U	i
, 9	.06-46-71,4-Dichlorobe 25-50-11,2-Dichlorobe	nzene	_;	330	١U	i
9	?5-48-72-Methylphenol .08-60-12,2'-oxybis(1-		_ _	330	١U	1
: 1	.08-60-12,2'-oxybis(1-	Chloropropane)	_{:	330	: U	1
1	06-44-54-Methylphenol		_;	330	١U	!
6	.06-44-54-Methylphenol 21-64-7N-Nitroso-Di-n	-Propylamine	_;	330	١U	;
: 6	7-72-1Hexachloroetha	ne	1	330	ŧυ	1
9	28-95-3Nitrobenzene		1	330	١U	{
7	'8-59-1Isophorone		1	330	ŀυ	;
8	38-75-52-Nitrophenol		1	330	ΙU	1
1	.05-67-92,4-Dimethy1ph	enol	_}	330	١U	1
1	.11-91-1bis(2-Chloroet	noxy)Methane	_;	330	ΙU	1
1	20-83-22,4-Dichloroph	enol	_1	330	ΙU	;
1	.20-82-11.2.4-Trichlore	obenzene	1 2	29	IJ	1
5	1-20-3Naphthalene		1	330	١U	!
1	06-47-84-Chloroanilin	2	1	330	١U	;
٤	37-68-3Hexachlorobuta	diene	1	330	ΙU	:
5	i9−50−7−−−−−−4−Chloro−3−Metl	rvlohenol	:	330	l U	1
5	1-57-62-Mathylpanhth	1000	1	330	١U	1
7	7-47-4Hexachlorocycle	opentadiene	-	330	ΙU	1
8	88-06-22,4,6-Trich1or 95-95-42,4,5-Trichlor 91-58-72-Chloronaphth	ophenol	_1	330	١U	1
5	%5-95-42,4,5-Trichlor	ophenol	_	1600	:U	1
5	1-58-72-Chloronaphth	slene	[]	330	ΙU	t t
ε	88-74-42-Nitroaniline		†	1600	ΙU	1
1	31-11-3Dimethyl Phtha	late	-	330	١U	1
2	08-96-8Acenaphthylene		-	330	IU	.
6	06-20-22,6-Dinitrotol	rene	-!	330	ŧυ	ŀ
5	9-09-23-Nitroaniline		-	1600	: U	1
٤ ا	33-32-9Acenaphthene		-	330	١U	;
			-		1	1

FORM I SV-1

02RB01AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP0B209306

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS: (uo/L or uo/Ko) UG/KG 💹

		1	1	
51-28-5	2,4-Dinitrophenol	1 1600	ł U	
100-02-7	4-Nitrophenol	1600	:U	
132-64-9	Dibenzofuran	; 330	ΙU	
121-14-2	2.4-Dinitrotoluene	; 330	١U	
84-66-2	Diethylphthalate	; 330	ΙU	
7005-72-3-	4-Chlorophenvl-phenvlet	her ¦ 330	ΙU	
86-73-7	Fluorene	: 330	١U	
100-10-6	Fluorene 4-Nitroaniline 4,6-Dinitro-2-Methylphe	1600	10	
534-52-1	4,6-Dinitro-2-Methylphe	nol: 1600	١U	
86-30-6	N-Nitrosodiphenylamine	(1) ; 330	١U	
101-55-3	4-Bromophenyl-phenyleth	er: 330	١U	
118-74-1	Hexachlorobenzene	: 330	:U	
87-86-5	Pentachlorophenol	1600	١U	
85-01-8	Phenanthrene	330	١U	
120-12-7	Anthracene	; 330	١U	
86-74-8	Carbazole	; 330	١U	
84-74-2	Di-n-Butylphthalate	: 330	۱U	
	Fluoranthene		ΙU	
129-00-0	Pyrene	; 81	١J	
85-68-7	Butylbenzylphthalate	; 330	1 U	
91-94-1	3,3′-Dichlorobenzidine_	660	ΙU	
56-55-3	Benzo(a)Anthracene	1 330	:U	
218-01-9	Chrysene	330	١U	
117-81-7	bis(2-Ethylhexyl)Phthal	ate 330	ΙU	
117-84-0	Di-n-Octyl Phthalate	330	ΙU	
205-99-2	Benzo(b)Fluoranthene	330	:U	
207-08-9	Benzo(k)Fluoranthene	330	١U	
50-32-8	Benzo(a)Pyrene	330	10	
193-39-5-	Indeno(1,2,3-cd)Pyrene_	; 330	١U	
53-70-3	Dibenz(a,h)Anthracene	; 330	١U	
	Benzo(g,h,i)Perylene		ΙU	

1F

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

02RB01AA

2000039

lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245839

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209306

Level: (low/med) LOW

% Moisture: decanted: (Y/N) N

Date Extracted: 08/09/93

Date Received: 08/05/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER

COMPOUND NAME

! RT

: EST. CONC. : Q

SAMPLE NO.

02RB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

CONCENTRATION UNITS: (ua/L or ua/Ka) UG/KG Q

	CAS NO.	COMPOUND	(mā/r or mā/Kā		(Q
1			l		1	
1	108-95-2	-Phenol	i	330	١U	ł
- 1	111-44-4	-his(2-Chloroethyl)Et	her	330	: U	1
;	95-57-8	-2-Chlorophenol		330	١U	1
ł	541-73-1	-2-Chlorophenol -1,3-Dichlorobenzene	<u> </u>	330	١U	;
i	196-46-/	-1.4-Dichlorobenzene	<u>!</u>	330	ŀυ	
•	95-50-1	-1.2-Dichlorobenzene	1	330	:U	1
- 1	95-48-7	-2-Methylphenol	;	330	ΙU	1
i	108-60-1	-2.2′-oxvbis(1-Chloro	nronana) !	330	١U	:
ŧ	106-44-5	-4-Methylphenol	1	330	ΙU	1
- 1	621-64-7	-N-Nitroso-Di-n-Pronv	lamine!	330	10	;
į,	67-72-1	-Hexachloroethane		330	I U	;
i	78-73-3	-Nitrobenzene	!	330	10	1
i.	78-59-1	-Isophorone	!	330	:U	!
i	88-75-5	-2-Nitrophenol	:	330	I U	1
i	109-6/-6	-2,4-Dimethylphenol		330	١U	1
' i	111-91-1	-bis(2-Chlornethoxy)M	ethane !	330	١Ü	
ŧ	120-83-2	-2,4-Dichlorophenol		330	: U	ŀ
i	120-82-1	-1,2,4-Trichlorobenze	ne ¦	330	١U	;
ŀ	91-20-3	-Naphthalene	1	330	١U	ŧ
1	106-47-8	-4-Chloroaniline	2	330	ΙÜ	1
ŀ	87-68-3	-Hexachlorobutadiene	ŧ	330	١U	1
I	59-50-7	-4-Chloro-3-Methylphe	100	330	10	1
i	91-57-6	-2-Methylnaphthalene	1	330	10	1
i	77-47-4	-Hexachlorocvclopenta	diene :	330	l U	1
ŀ	88-06-2	2,4,6-Trichloropheno	1	330	l U	•
1	95-95-4	-2,4,5-Trichloropheno	1 ;	1600	i U	;
t i	91-58-7	2-Chloronaphthalene_		330	IU	:
!	88-74-4	2-Nitropoiline	1	1400	I U	
1	131-11-3	Dimethyl Phthalate		330	10	•
1	208-96-8	Acenaphthylene		330	10	1.
1	606-20-2	2.6-Dinitrotoluene		330	10	
į,	99-09-2	Dimethyl Phthalate -Acenaphthylene -2,6-Dinitrotoluene -3-Nitroaniline		1600	: U	!
t t	83-32-9	-Acenaphthene		330	10	!
!				330	:	! !
-			· · · · · · · · · · · · · · · · · · ·		-'	·'

SAMPLE NO.

OZRBOZAA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246039

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08209310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

CAS NO.

Dilution Factor: 1.0

G

GPC Cleanup: (Y/N) Y pH: 5.7

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/KG

; 51-28-5----2,4-Dinitrophenol_____ 1600 10 | 100-02-7----4-Nitrophenol____ 1600 111 | 132-64-9-----Dibenzofuran__ 330 l U : 121-14-2----2,4-Dinitrotoluene____ 330 111 84-66-2----Diethylphthalate____ 330 10 : 7005-72-3-----4-Chlorophenyl-phenylether_ 330 10 | 86-73-7-----Fluorene_____ | 100-10-6-----4-Nitroaniline____ 330 :11 1600 : 11 : 534-52-1----4,6-Dinitro-2-Methylphenol___: 1600 !U : 86-30-6----N-Nitrosodiphenylamine (1)____ 330 10 : 101-55-3----4-Bromophenyl-phenylether___ 330 ΙU | 118-74-1----Hexachlorobenzene____ 330 !U 87-86-5----Pentachlorophenol 1600 111 : 85-01-8-----Phenanthrene____ 330 111 120-12-7-----Anthracene____ 330 10 : 86-74-8-----Carbazole____ 330 10 84-74-2----Di-n-Butylphthalate____ 330 !U | 206-44-0----Fluoranthene____ 330 10 : 129-00-0-----Pyrene____ 330 111 B5-68-7----Butylbenzylphthalate____ 330 10 | 91-94-1-----3,3'-Dichlorobenzidine____ 660 : 11 | 56-55-3----Benzo(a)Anthracene_____ 330 111 | 218-01-9----Chrysene_ 330 :U | 117-81-7-----bis(2-Ethylhexyl)Phthalate____! 330 10 1 117-84-0-----Di-n-Octyl Phthalate___ 330 111 205-99-2----Benzo(b)Fluoranthene_____ 10 330 | 207-08-9-----Benzo(k)Fluoranthene____ 330 : 11 : 50-32-8-----Benzo(a)Pyrene____ 330 10 193-39-5----Indeno(1,2,3-cd)Pyrene____ 330 l U | 53-70-3-----Dibenz(a,h)Anthracene_____ 330 10 | 191-24-2-----Benzo(g,h,i)Perylene____ 330 : U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

1 02RB02AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Samole ID: H246039

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209310

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(úL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ua/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q

SAMPLE NO.

02RB03AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Sample ID: H246698

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08239302

Level: (low/med) LOW Date Received: 08/11/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (uo/L or uo/Ko) UG/KG 🔲 CAS NO. COMPOUND

	LAS NU.	COMPOUND	(ug/L or	πō\kō)	06/86		ы
!	100-05-2	Phonel		1	77.	:	!
	111-11-1	Phenol_ bis(2-Chloroethyl)Et	- t	- <u>i</u>	330	:U	i
f T	05-57-0	2-Chlorophenol	ner	_ <u>'</u>	330	10	i 1
1	5/1-73-1	1,3-Dichlorobenzene		-¦	330 330	10	i
I I	104-44-7	1,4-Dichlorobenzene		-;			1
1	P5-50-1	1,4-Dichlorobenzene_		-	330 330	: U	i
1	95-48-7			-!	330		1 1
í	108-40-1	2-Methylphenol 2,2'-oxybis(1-Chloro		- !	330	١U	i
!	106-60-1	4-Mathylphanal	h Lob sue)	_¦	330	U	1
	421-44-7	4-Methylphenol N-Nitroso-Di-n-Propy	.1	-:	330		i
ŧ	67-72-1	Hexachloroethane	ramine	-¦	330	: U	i
1	00-05-7	Nitrobenzene		- [330	: U	i
ŧ	78-59-1	Isophorone		-'	330	: U	-1
!	88-75-5	2-Nitrophenol		-	330	10	1
	105-67-9	2,4-Dimethylphenol_		-1	330	: U	t 1
	111-91-1	bis(2-Chloroethoxy)	lothana	- !	330	. U	1
	120-83-2	2,4-Dichlorophenol_	ie ciralie	_'	330	: U	1
	120-82-1	1,2,4-Trichlorobenze		_ t	330	10	1
	91-20-3	Naphthalene		-!	330	10	1
	104-47-8	4-Chloroaniline	***	- 1	330	10	1
	87-48-3	Hexachlorobutadiene_		- '	330	:0	1
	59-50-7	4-Chloro-3-Methylphe	001	- '	330	10	1
	91-57-6	2-Methylnaphthalene_		_1	330	:U	1
	77-47-4	Hexachlorocyclopenta	diana	- 1	330	10	1
	88-06-2	2,4,6-Trichloropheno	diene	-!	330	10	1
	95-95-4	2,4,5-Trichloropheno	.1	- '	1600	i U	1
ı	91-58-7	2-Chloronaphthalene_	· +	- :	330	10	1
	71 30 7	2 Nitemanilian		- '			1
	171-11-7	2-Nitroaniline Dimethyl Phthalate		- '	1600 330	10	i 1
1	700-0/-0	Dimethyl Phthalate		- <u>'</u>			i
1	404-20-2	Acenaphthylene		-!	330	10	•
	00-00-2	2,6-Dinitrotoluene		- <u> </u>	330	! U	i
	77-07-2	3-Nitroaniline		- <u>i</u>	1600	: U	i
1	00-02-7	Acenaphthene		- <u> </u>	330	ŀυ	i
		EDDM I C		_i		_'	i

FORM I SV-1

SAMPLE NO.

02RB03AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239302

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS	3 NO.	COMPOUND		r ug/Kg)		Ø	
			_	1		1	—.
51-	-28-5	-2.4-Dinitrophenol		i !	1600	: : U	i !
100	0-02-7	-4-Nitrophenol		<u>'</u>	1600	10	!
132	2-64-9	-Dibenzofüran		 ;	330	I U	
1 121	1-14-2	-2.4-Dinitrotoluene		!	330	iu	:
1 84-	-66-2	-2.4-Dinitrotoluene_ -Diethylphthalate_ -4-Chlorophenyl-pheny			330	Ι υ	:
1 700	05-72-3	-4-Chlorophenyl-pheny	lether	i	330	i U	i
1 86-	-73-7	-Fluorene -4-Nitroaniline			330	: U	;
1 100	0-10-6	-4-Nitroaniline			1600	i U	
1 554	4-52-1	-4,6-Dinitro-2-Methyl	phenol	}	1600	i U	!
1 86-	-30-6	-N-Nitrosodiphenvlami	ne (1)	1	330	١U	-
1 101	l-55-3	-4-Bromophenyl-phenyl	ether	f i	330	ΙU	;
ہہ 118	3-74-1	-Hexachlorobenzene		!	330	۱.	i
87-	-86-5	-Pentachlorophenol		1	1600	١U	1
1 85-	-01-8	-Phenanthrene		1	330	10	1
! 170)-1?-7	-Onthracona		1	330	١U	1
1 86-	-74-8	-Carbazole		!	330	:U	1
: 84-	-/4-2	-Di-n-Butvlohthalate		:	330	۱U	;
1 206	5-44-0	-Fluoranthona		1	330	IU	- 1
129	7-00-0	-Pyrene -Butylbenzylohthalate			330	١U	1
85-	-68-7	Butylbenzylohthalate			330	10	1
! 71-	-94-1	-3,3´-Dichlorobenzidi	ne	į	660	10	i
56-	-55-3	-Benzo(a)Anthracene		!	330	:U	1
1 218	3-01-9	-Chrysene		:	330	١U	i
i 11/	/-81-/	-Dis(2-Ethylhexvi)Pht	halate	i	330	!U	3 2
1 117	7-84-0	-Di-n-Octyl Phthalate			330	١U	:
1 205	5-99-2	-Benzo(b)Fluoranthene		;	330	١U	ŧ
207	7-08-9	Benzo(k)Fluoranthene		1	330	١U	1
: 50-	-32-8	-Benzo(a)Pyrene		!	330	:U	1
193	3-39-5	-Indeno(1,2,3-cd)P∨re	ne	1	330	١U	:
: 53-	-70-3	-Dibenz(a.h)Anthracen	e	†	330	l U	į.
191	1-24-2	Benzo(g,h,i)Perylene		_,	330	١U	ì
1				 !		-	í

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

O2RBO3AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246698

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08239302

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

COMPOUND NAME : RT : EST. CONC. : Q : CAS NUMBER

SAMPLE NO.

02RB05AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SDIL Lab Sample ID: H247050

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239307

Level: (low/med) LOW Date Received: 08/14/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	•				
i				1	
Ī	108-95-2	Phenol:	330	: U	!
i	111-44-4	bis(2-Chloroethy1)Ether	330	ΙU	i
;	95-57-8	2-Chlorophenol;	330	١U	ł
	541-73-1	1.3-Dichlorobenzene :	330	ΙU	i
ŀ	106-46-7	1.4-Dichlorobenzene ;	330	١U	1
1	95-50-1	1.2-Dichlorobenzene	330	١U	i
i	95-48-7	2-Methylphenol	330	١U	t T
į	108-60-1	2.2'-oxybis(1-Chloropropane)	330	: U	ł
l	106-44-5	4-Methylphenol	330	١U	1
l	621-64-7	N-Nitroso-Di-o-Propylamine !	330	١U	;
t	67-72-1	Hexachloroethane	330	١U	1
	98-95-3	Nitrobenzene :	330	١U	:
!	78-59-1	Isophorone :	330	ΙU	1
	88-75-5	2-Nitronbenol !	330	: U	- 1
	105-67-9	2,4-Dimethylphenol ;	330	١U	- 1
	111-91-1	bis(2-Chloroethoxy)Methage !	330	! U	i
i	120-83-2	2,4-Dichlorophenol	330	١U	;
	120-82-1	1.2.4-irichlorobenzene :	330	ΙU	1
l	91-20-3	Naphthalene	330	١U	;
	106-4/-8	4-Chioroaniline ;	330	. 10	1
	87-68-3	Hexachlorobutadiene	330	١U	1
	59-50-7	4-Chloro-3-Methylohenol :	330	!U	1
	91-57-6	2-Methylnaphthalene;	330	١U	i i
	77-47-4	Hexachlorocyclopentadiene :	330	:U	1
1	88-06-2	2,4,6-Trichlorophenol	330	١U	1
	95-95-4	2,4,5-Trichlorophenol	1600	! U	i
	91-58-7	2-Chloronaphthalene;	330	١U	1
1	88-74-4	2-Nitroaniline	1600	ŀυ	i i
ì	131-11-3	Dimethyl Phthalate ;	330	١U	:
	208-96-8	Acenaphthylene:	330	ίU	1.
	606-20-2	2.6-Dinitrotoluene :	330	١U	1
	99-09-2	3-Nitroaniline :	1600	١U	1
	83-32-9	Acenaphthene	330	١U	1
!				_	<u> </u>
		EDDM I CU I			

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02RB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247050

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08239307

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: decanted: (Y/N) N Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

	CAS NO.	COMPOUND	(ug/L or	ug/Kg)			Q
E F	**************************************			;		1	:
1	51-28-5	2,4-Dinitrophenol		_	1600	١U	:
i	100-02-7	4-Nitrophenol		_	1600	١U	:
i	132-64-9	Dibenzofuran		_1	330	:U	+
ŀ	121-14-2	2.4-Dinitrotoluene		_1	330	١U	;
1	84-66-2	Diethylphthalate		_	330	: U	1
1	7005-72-3	4-Chlorophenvl-phen	vlether	:	330	١U	1
I	86-73-7	Fluorene		_1	330	١U	1
ŀ	100-10-6	4-Nitroaniline		_;	1600	١U	:
ŧ	534-52-1	4,6-Dinitro-2-Methy	lphenol	_	1600	١U	ŧ
į	86-30-6	N-Nitrosodiphenylam	ine (1)	_1	330 -	: U	£
ŀ	101-55-3	4-Bromophenyl-pheny	lether	_1	330	١U	1
l	118-74-1	Hexachlorobenzene		_!	330	١U	L
ï	87-86-5	Pentachlorophenol		_:	1600	١U	1
ŀ	85-01-8	Phenanthrene		_	330	ΙU	į
i	120-12-7	Anthracene		•	330	١U	l t
ł	86-74-8	Carbazole		1	330	١U	1
ŀ	84-74-2	Di-n-Butvlohthalate			330	! U	1
1	206-44-0	Fluoranthene		:	330	!U	1
1	129-00-0	Pyrene Butylbenzylphthalat		-	330	١U	ŀ
ŧ	85-68-7	Butylbenzylphthalat	e	_;	330	:U	1
i	91-94-1	3,3′-Dichlorobenzid:	ine	_	660	l U	Į.
į	56-55-3	Benzo(a)Anthracene		ŧ	330	!U	i i
ļ	218-01-9	Chrysene		1	330	١U	1
i	117-81-7	bis(2-Ethylhexyl)Ph	thalate	_	330	: U	ţ
1 6	117-84-0	Di-n-Octyl Phthalat	2	_;	330	١U	1
ŀ	205-99-2	Benzo(b)Fluoranthen	e	;	330	:U	1
ţ	207-08-9	Benzo(k)Fluoranthen	e	_	330	١U	1
1	50-32-8	Benzo(a)Pyrene		- 1	330	ΙU	1
i	193-39-5	Indeno(1,2,3-cd)Pyr	ene	_!	330	!U	1
ŀ	53-70-3	Dibenz(a,h)Anthrace	ne	_!	330	١U	1.
E	191-24-2	Benzo(g,h,i)Perylen	6	_1	330	!U	1
ļ				_		_	!

^{(1) -} Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02RB05AA

Lab Name: PACE INC.

Contract: ELLINGTON

SDG No.: PKG2 Case No.: ELL1

Lab Sample ID: H247050 Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239307

Level: (low/med) LOW Date Received: 08/14/93

Date Extracted: 08/17/93 % Moisture: decanted: (Y/N) N

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Ka) UG/KG

CAS NUMBER : COMPOUND NAME ! RT : EST. CONC. ! Q :

FORM I SV-TIC

SAMPLE NO.

02SB16BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (spil/water) SOIL Lab Sample ID: H245835

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08209302

Level: (low/med) LOW Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

108-95-2	Phenol		1
108-95-2 111-44-4	Phenol		
111-44-4		450	١U
05_57_0	Phenol bis(2-Chloroethyl)Ether	450	:U
70-0/-0	2-Chlorophenol	450	: U
541-73-1	1,3-Dichlorobenzene	450	١U
106-46-7	1.4-Dichlorobenzene	450	:U
95-50-1	1.2-Dichlorobenzene	450	١U
95-48-7	2-Methylphenol 2,2'-oxybis(1-Chloropropane)_	450	! U
108-60-1	2,2'-oxybis(1-Chloropropane)_	450	10
106-44-5	4-Methylphenol	450	ŧυ
521-64-7	4-Methylphenol N-Nitroso-Di-n-Propylamine	450	l U
67-72-1	Hexachloroethane :	450	ŧШ
78-95-3	Nitrobenzene	450	!U
78-59-1	Isophorone	450	ŧυ
38-75-5	2-Nitrophenol :	450	10
105-6/-9	2,4-Dimethylphenol :	450	ΙU
111-91-1	bis(2-Chloroethoxy)Methane :	450	: U
120-83-2	2,4-Dichlorophenol	450	۱U
120-82-1	1,2,4-Trichlorobenzene	450	10
71-20-3	Naphthalene!	450	١U
106-47-8	4-Chloroaniline :	450	10
37-68-3 -	Hexachlorobutadiene	450	١U
59-50-7	4-Chloro-3-Methylphenol :	450	:U
71-57-6	2-Methylnaphthalene :	450	: U
77-47-4	Hexachlorocyclopentadiene :	450	١U
38-06-2	2,4,6-Trichlorophenol :	450	!U
?5-95-4	2,4,5-Trichlorophenol	2200	: U
91-58-7	2-Chloronaphthalene	450	١U
38-74-4	2-Nitroaniline	2200	:U
131-11-3	Dimethyl Phthalate	450	! U
208-96-8	Acenaphthylene	450	ΙU
606-20-2	2,6-Dinitrotoluene	450	: U
99-09-2	3-Nitroaniline	2200	ΙŪ
33-32-9	Acenaphthene	450	١U

SAMPLE NO.

02SB16BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND		or ug/Kg)		
51-28-5	2,4-Dinitrophenol	·	i {	2200	: : U
100-02-7	4-Nitrophenol		!	2200	١U
132-64-9	Dibenzofuran		{	450	١U
121-14-2	2.4-Dinitrotoluer	re	;	450	١U
84-66-2	Diethylphthalate_ 4-Chlorophenyl-ph			450	:U
7005-72-3	4-Chlorophenyl-ph	enylether	l	450	10 .
86-73-7	Fluorene		;	450	١U
100-10-6	4-Nitroaniline			2200	ΙU
534-52-1	4,6-Dinitro-2-Met	hylphenol	!	2200	ŀU
86-30-6	N-Nitrosodiphenyl	amine (1)	!	450	١U
101-55-3	4-Bromophenyl-phe	nylether_	!	450	IU
118-74-1	Hexachlorobenzene)	:	450	l U
87-86-5	Pentachlorophenol		};	2200	! U
85-01-8	Phenanthrene		!	450	: U
120-12-7	Anthracene		;	450	ΙU
86-74-8	Carbazole		<u></u>	450	ΙU
84-74-2	Di-n-Butylphthala	te		450	١U
206-44-0	Fluoranthene		!	450	:U
129-00-0	Pyrene		1	73	¦ J
85-68-7	Butylbenzylphthal	ate	† 3	450	: U
91-94-1	3,3'-Dichlorobenz	idine		900	١U
56-55-3	Benzo(a)Anthracen	le	1	450	١U
218-01-9	Chrysene		!	450	١U
117-81-7	Chrysene bis(2-Ethylhexyl)	Phthalate.	1	450	1 U
117-84-0	Di-n-Octyl Phthal	.ate	i	450	۱U
205-99-2	Benzo(b)Fluoranth	iene	!	450	١U
207-08-9	Benzo(k)Fluoranth	iene		450	١U
50-32-8	Benzo(a)Pyrene		1	450	١U
193-39-5	Indeno(1,2,3-cd)F	yrene	{	450	١U
53-70-3	Dibenz(a,h)Anthra	cene	I	450	:U
191-24-2	Benzo(g,h,i)Peryl	ene		450	١U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB16BA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245835

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209302

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

COMPOUND NAME : RT : EST. CONC. : Q CAS NUMBER

SAMPLE NO.

025B18BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209309

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

(ug/L or ug/Kg) UG/KG

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO. COMPOUND

				_
		! !	}	
108-95-2	Phenol	420	i U	
111-44-4	his(2-Chloroethyl)Ether	420	:U	
95-57-8	2-Chlorophenol	420	!U	
541-73-1	1,3-Dichlorobenzene	420	١U	
106-46-7	1.4-Dichlorobenzene	420	:U	
95-50-1	1.2-Dichlorobenzene	420	١U	
95-48-7	2-Methylphenol	420	ŧυ	
108-60-1	2.2′-0xvbis(1-Chloropropage)	420	1 U	
106-44-5	4-Methylphenol	420	10	
621-64-7	4-Methylphenol N-Nitroso-Di-n-Propylamine	420	ίŪ	
67-72-1	Hexachloroethane :	420	ΙÜ	
98-95-3	Nitrobenzene :	420	Ü	
78-59-1	Isophorone :	420	ΙU	
88-75-5	2-Nitrophenol	420	ΙÜ	
105-67-9	2,4-Dimethylphenol	420	ΙÜ	
111-91-1	bis(2-Chloroethoxy)Methane :	420	!U	
120-83-2	2,4-Dichlorophenol	420	ΙU	
120-82-1	1,2,4-Trichlorobenzene :	46	1 J	
91-20-3	Naphthalene	420	10	
106-47-8	4-Chloroaniline ;	420	:U	
87-68-3	Hexachlorobutadiene ;	420	١U	
59-50-7	4-Chloro-3-Methylphenol :	420	:U	
91-57-6	2-Methylnaphthalene	420	١U	
77-47-4	Hexachlorocyclopentadiene !	420	l U	
88-06-2	2.4.6-Trichlorophenol	420	: U	
95-95-4	2,4,5-Trichlorophenol :	2000	:U	
91-58-7	2-Chloronaphthalene	420	١U	
88-74-4	2-Nitroaniline	2000	! U	
131-11-3	Dimethyl Phthalate ;	420	i U	
208-96-8	Acenaphthylene	420	ΙÜ	
606-20-2	2,6-Dinitrotoluene :	420	ΙŪ	
99-09-2	3-Nitroaniline :	2000	: U	
83-32-9	Acenaphthene;	420	: U	
		.20	, 0	

SAMPLE NO.

02SB18BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209309

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITE.

CAS NO.	COMPOUND	CONCENTRATION UNI (ug/L or ug/Kg) U(Q	
				ł	- ;
51-28-5	2,4-Dinitropheno	1 : 3	2000	١U	1
100-02-7	4-Nitrophenol	1	2000	١U	:
132-64-9	Dibenzofuran	!	420	١U	1
121-14-2	2,4-Dinitrotolue	ne l	420	:U	1
84-66-2	Diethylphthalate		420	١U	1
7005-72-3	4-Chlorophenyl-p	henvlether :	420	l U	;
86-73-7	Fluorene		420	l U	:
100-10-6	4-Nitroaniline		2000	!U	!
534-52-1	4,6-Dinitro-2-Me	thylphenol :	2000	ΙU	;
	N-Nitrosodipheny		420	١U	1
	4-Bromophenyl-ph		420	I U	1
	Hexachlorobenzen		420	ΙU	1
87-86-5	Pentachloropheno	1 2	2000	١U	
85-01-8	Phenanthrene		420	l U	
120-12-7	Anthracene		420	:U	
86-74-8	Carbazole		420	ΙU	
84-74-2	Carbazole Di-n-Butylphthal	ate	420	١U	
206-44-0	Fluoranthene		420	ΙU	
129-00-0	Pvrene		150	; J	
85-48-7	Pyrene Butylbenzylphtha	late	420	ΙÜ	
91-94-1	3,3'-Dichloroben	zidine	840	ίŪ	
54-55-3	Benzo(a)Anthrace	ne .	420	iu	
218-01-9	Chrysene	1	420	i U	
117-81-7	bis(2-Ethylhexyl)Phthalate !	420	10	
	Di-n-Octyl Phtha		420	10	
205-99-2	Benzo(b)Fluorant	nane !	420	Ü	
207-08-9	Benzo(k)Fluorant	nana !	420	.U	
50-32-8	Benzo(a)Pyrene	!	420	i U	
107_70_5	Indeno(1,2,3-cd)	Byroos	420	10	
57-70-3	Dibenz(a,h)Anthr	35000	420	10	
101-24-2	Dibenz(a,n)Anthr	1	420	10	
171-24-2	Benzo(g,h,i)Pery	reus	420	i U	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. .

02SB18BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246038

Date Extracted: 08/09/93

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209309

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: 21 decanted: (Y/N) N

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT | EST. CONC. | Q |

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SAMPLE NO.

02SB19AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBP08239301

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (ua/L or ua/Ka) UG/KG Q

			(māvr or māvvā)			
-			;		1	
	108-95-2	Phenol_ bis(2-Chloroethyl)Et	t t	450		
	111-44-4	bis(2-Chloroethyl)Et	her	450	!U	
	95-57-8	2-Chlorophenol	I	450	١U	
	541-73-1	1,3-Dichlorobenzene_	I	450	١U	
	106-46-7	1,4-Dichlorobenzene_		450	١U	
	95-50-1	1.2-Dichlorobenzene	- <u>{</u>	450	l U	
	95-48-7	2-Methylphenol	<u> </u>	450	١U	
	108-60-1	2-Methylphenol 2,2'-oxybis(1-Chloro	propane)_:	450	١U	
	106-44-5	4-Methylphenol		450	١U	
	621-64-7	4-Methylphenol N-Nitroso-Di-n-Propy	lamine!	450	:U	
	67-72-1	Hexachloroethane	;	450	١U	
	98-95-3	Nitrobenzene	<u> </u>	450	١U	_
	78-59-1	Isophorone	!	450	١U	
	88-75-5	2-Nitrophenol	:	450	:U	
	105-67-9	2,4-Dimethylphenol_	!	450	١U	
	111-91-1	bis(2-Chloroethoxy)M	lethane !	450	ΙU	
	120-83-2	2,4-Dichlorophenoi		450	١U	
	120-82-1	1.2.4-Trichlorobenze	ne !	450	ŧυ	
	91-20-3	Naphthalene 4-Chloroaniline		450	١U	
	106-47-8	4-Chloroaniline		450	ΙU	
	87-68-3	Hexachlorobutadiene_	1	450	: U	
	59-50-7	4-Chloro-3-Methylphe	nol	450	ΙŪ	
	91-57-6	2-Methylnaphthalene_		450	ΙŪ	
	77-47-4	Hexachlorocyclopenta	diene	450	IU	
	88-06-2	2,4,6-Trichloropheno	1	450	ΙŪ	
	95-95-4	2,4,5-Trichlorophenc	<u> </u>	2200	ΙŪ	
	91-58-7	2-Chloronaphthalene_	·	450	ΙÜ	
	00-74-4	2-Nitroaniline	· ·	2200	10	
	171-11-7	Dimethyl Phthalate	 ;	450	:υ	
	700-04-0	Acenaphthylene		450	: U	
	404-20-2	2,6-Dinitrotoluene_		450	10	
	000-20-2	2,6-Dinitrotoluene	<u> </u>	2200	10	
	77-07-2	3-Nitroaniline				
	03-32-7	Acenaphthene	i	450	ļυ	

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SAMPLE NO.

02SB19AA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239301

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

i	51-30-5	1 2200	; ;⊔	i
1	51-28-52,4-Dinitrophenol	2200		
ě t	100-02-74-Nitrophenol	2200	10	i
i	132-64-9Dibenzofuran	450	: U	i
i	121-14-22.4-Dinitrotoluene	450	IU	i
i	84-66-2Diethylphthalate	450	IJ	
	7005-72-34-Chlorophenyl-phenylether	450	; U	i
	86-73-7Fluorene	.450	١U	i
1	100-10-64-Nitroaniline	2200	: U	;
ì	534-52-14,6-Dinitro-2-Methylphenol	2200	ΙU	i
	86-30-6N-Nitrosodiphenylamine (1)	450	!U	1
	101-55-34-Bromophenyl-phenylether	450	١U	1
	118-74-1Hexachlorobenzene	450	١.	1
ŀ	87-86-5Pentachlorophenol	2200	١U	1
	85-01-8Phenanthrene	450	: U	- 1
	120-12-7Anthracene	450	١U	1
	86-74-8Carbazole	450	١U	1
	84-74-2Di-n-Butylphthalate	450	١U	;
	206-44-0Fluoranthene	450	:U	1
	129-00-0Pyrene	450	١U	1
	85-68-7Butylbenzylphthalate	450	: U	;
	91-94-13,3'-Dichlorobenzidine	900	: U	1
	56-55-3Benzo(a)Anthracene	450	ΙŪ	1
	218-01-9Chrysene 117-81-7bis(2-Ethylhexyl)Phthalate	450	ΙÜ	1
	117-81-7bis(2-Ethylhexyl)Phthalate	450	iŪ	
	117-84-0Di-n-Octyl Phthalate	450	iu	
	205-99-2Benzo(b)Fluoranthene	450	: U	
	207-08-9Benzo(k)Fluoranthene	450	: U	į
	50-32-8Benzo(a)Pyrene		10	!
	193-39-5Indeno(1,2,3-cd)Pyrene	450	: 0	i
	53-70-3Dibenz(a,h)Anthracene	450	; U	
	191-24-2Benzo(g,h,i)Perylene			11
	171 24 Z	450	; U	i
				i

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB19AA

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (spil/water) SOIL

Lab Sample ID: H246697

Sample wt/vol: 30.0 (a/mL) G

Lab File ID: SBP08239301

Level: (low/med) LOW

Date Received: 08/11/93

Date Extracted: 08/12/93

% Moisture: 27 decanted: (Y/N) N

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

COMPOUND NAME

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER

! RT

| EST. CONC. | Q |

SAMPLE NO.

02SB19AARE

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: COMPOUND (up/L or up/Ko) US/KS - R CAC NO

	CAS NO.	COMPOUND	(nā/L or	ug/Kg)	UG/KG	U	
!				1		1	
1	108-95-2	Phenol bis(2-Chloroethyl)E		_1	450	١U	1
1	111-44-4	bis(2-Chloroethyl)E	ther	_!	450	: U	ł
ŀ	95-57-8	2-Chlorophenol		_1	450	ΙU	1
1	541-73-1	1.3-Dichlorobenzene		{}}	450	ΙU	1
į.	106-46-7	1,4-Dichlorobenzene		_ !	450	ΙU	I
ł	95-50-1	1.2-Dichlorobenzene		_1	450	: U	ł
1	95-48-7	2-Methylphenol		_	450	١U	1
- }	108-60-1	2,2′-oxybis(1-Chlore	opropane) _.	_;	450	!U	1
1	106-44-5	4-Methylphenol		_ }	450	l U	- 1
- 1	621-64-7	N-Nitroso-Di-n-Prop	ylamine	1	450	l U	;
1	67-72-1	Hexachloroethane		_1	450	: U	1
- 1	98-95-3	Nitrobenzene		_{	450	l U	1
1	78-59-1	Isophorone		1	450	١U	:
1	88-75-5	2-Nitrophenol		_	450	l U	1
. 1	105-67-9	2,4-Dimethylphenol_		_:	450	ΙU	ŀ
1		bis(2-Chloroethoxy)			450	١U	1
!	120-83-2	2,4-Dichlorophenol_		_!	450	١U	i
;	120-82-1	1.2.4-Trichlorobenze	ene	1	450	10	;
- [91-20-3	Naphthalene 4-Chloroaniline		_	450	۱U	1
į	106-47-8	4-Chloroaniline		_;	450	:U	1
ŀ	87-68-3	Hexachlorobutadiene		_!	450	١U	:
1	59-50-7	4-Chloro-3-Methylph	enol	_¦	450	: U	ł
į	91-57-6	2-Methylnaphthalene		_1	450	١U	1
ŧ	77-47-4	Hexachlorocyclopent:	adiene	_;	450	:U	1
ŧ	88-06-2	2,4,6-Trichlorophend	ol	_	450	!U	1
1	95-95-4	2,4,5-Trichlorophene	ol	_1	2200	l U	;
1	91-58-7	2-Chloronaphthalene		_1	450	ΙU	;
1	88-74-4	2-Nitroaniline		_1	2200	ΙU	ŧ
ŀ		Dimethyl Phthalate_			450	ΙU	1
1		Acenaphthylene			450	١U	٠ţ
1	606-20-2	2,6-Dinitrotoluene_		_	450	:U	1
1	99-09-2	3-Nitroaniline		_;	2200	l U	ŧ
;	83-32-9	Acenaphthene		_1	450	١U	1
!				!		_	

SAMPLE NO.

025B19AARE

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Samole ID: H246697RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08279303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: CAS NO. COMPOUND (uo/L or uo/Ko) UG/KG

	COMPOUND (UG/L	or mālkāl nelke	· (1)
51-28-5		1	1
100-02-7	2,4-Dinitrophenol	2200	
132-44-9	4-Nitrophenol	2200	
121-14-2	2,4-Dinitrotoluene	450	
84-44-7	Diethylphthalate	450	
7005-72-3	4-Chlorophenyl-phenylether	450	. –
84-73-7		450	
100-10-4	Fluorene	450	
534-52-1	4-Nitroaniline	2200	
04-30-4	4,6-Dinitro-2-Methylphenol N-Nitrosodiphenylamine (1)	2200	
101-55-7	N-Nitrosociphenylamine (1)	450	
101-33-3	4-Bromophenyl-phenylether_	! 450	. —
118-/4-1	Hexachlorobenzene	450	
8/-86-3	Pentachlorophenol	2200	
85-01-8	Phenanthrene	450	. –
120-12-/	Anthracene	l 450	
86-/4-8	Carbazole	¦ 450	
84-/4-2	Di-n-Butylphthalate	450	. —
206-44-0	Fluoranthene	450	
129-00-0	Pyrene	1 450	l U
85-68-7	Butylbenzylphthalate	; 450	: U
91-94-1	3,3'-Dichlorobenzidine	; 900	:U
56-55-3	Benzo(a)Anthracene	450	10
218-01-9	Chrysene bis(2-Ethylhexyl)Phthalate	450	١U
117-81-7	bis(2-Ethylhexyl)Phthalate	: 450	: U
117-84-0	Di-n-Octyl Phthalate	: 450	١U
205-99-2	Benzo(b)Fluoranthene	1 450	:U
207-08-9	Benzo(k)Fluoranthene	1 450	١U
50-32-8	Benzo(a)Pvrene	! 450	:U
193-39-5	Indeno(1.2.3-cd)Pyrene	450	
53-70-3	Dibenz(a.h)Anthracene	1 450	
191-24-2	Benzo(g,h,i)Perylene	450	

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB19AARE

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246697RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08279303

Level: (low/med) LOW

Date Received: 08/11/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q

SAMPLE NO.

02SB20BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

•	JA 140.	COLII GOND	ragic of	αάν κά ν	00/10		CQ.
_		200 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4		ł		i	
:	108-95-2	-Phenol -bis(2-Chloroethyl)Et		1	440	ΙU	
	111-44-4	-bis(2-Chloroethy1)Et	ner	1	440	ŧШ	
•	95-57-8	-2-Chlorophenol -1,3-Dichlorobenzene_		1	440	١U	
	541-73-1	-1,3-Dichlorobenzene		<u>.</u>	440	۱U	
	L06-46-7	-1,4-Dichlorobenzene		1	440	ΙU	
	75-50-1	-1.2-Dichlorohenzene		!	440	: U	
•	75-48-7	-2-Methylphenol		1	440	١U	
:	108-60-1	-2-Methylphenol -2,2'-oxybis(1-Chloro	oropane)_	[]	440	1 U	
:	106-44-5	-4-Methylphenol		1	440	٠U	
ć	521-64-7	-4-Methylphenol -N-Nitroso-Di-n-Propy	lamine	1	440	١U	
ć	67-72-1	-Hexachloroethane		ŀ	440	ΙU	
•	78-95-3	-Nitrobenzene		1	440	:U	
7	78-59-1	-Isophorone		1	440	١U	
٤	38-75-5	-2-Nitrophenol		1	440	: U	
1	05-67-9	-2,4-Dimethylphenol		1	440	١U	
	111-91-1	-bis(2-Chloroethoxy)M	thane	1	440	١U	
:	20-83-2	-2,4-Dichlorophenol		1	440	:U	
- :	120-82-1	-1.2.4-Trichlorobenze	ne	-	440	ΙU	
•	71-20-3	-Naphthalene		i	440	١U	
- 1	l 06-47-8	-4-Chloroaniline		}	440	١U	
8	37-68-3	-Hexachlorobutadiene		1	440	١U	
5	59-50-7	-4-Chloro-3-Methylphe	nol	1	440	ΙU	
•	91-57-6	-2-Methylnaphthalene		1	440	١U	
7	77-47-4	-Hexachlorocyclopentag	diene	:	440	١U	
٤	88-06-2	-2,4,6-Trichloropheno:	L	Į.	440	1 U	
9	75-95-4	-2,4,5-Trichloropheno:	l	1	2100	: U	
•	71-58-7	-2-Chloronaphthalene		1	440	١U	
8	38-74-4	-2-Nitroaniline		:	2100	: U	
1	31-11-3	-Dimethyl Phthalate			440	ΙU	
1	208-96-8	-Acenaphthylene		:	440	IU	
é	606-20-2	-2,6-Dinitrotoluene		:	440	I U	
•	79-09-2	-3-Nitroaniline		1	2100	IU	
8	33-32-9	-Acenaphthene			440	١U	
		•		1		}	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

02SB20BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS: (uo/L or uo/Ko) UG/KG

CAS NO.	COMPOUND (1	πō/Γ or	ug/Kg)	UG/KG		3
51-28-5	2,4-Dinitrophenol		1	2100	: : U	
100-02-7	4-Nitrophenol		 ;	2100	ייי	
137-64-9	Dibenzofuran		- ¦	440	: U	
171-14-7	2,4-Dinitrotoluene	· · · · · · · · · · · · · · · · · · ·	- ;	440	טו	
94-66-7	Diethylphthalate	****	<u> ' </u>	440	10	
7005-72-3	4-Chlorophenyl-phenyl	then	-;	440	ΙÜ	
84-73-7	Fluorene			440	ıu	
100-10-6	4-Nitroaniline		-;	2100	: U	
534-52-1	4,6-Dinitro-2-Methylph	2001	-;	2100	: U	
86-30-6	Nitrosodiphenylamin	(1)	-:	440	Ü	
101-55-3	4-Bromophenyl-phenyle	ther	-:	440	ΙÜ	
118-74-1	Hexachlorobenzene	- C. (C.)	-	440	: U	
87-84-5	Pentachlorophenol		-;	2100	. U	
	Phenanthrene			440	: U	
120-12-7	Anthracene		-;	440	: U	
04-74-9	Carbazole		-:	440	10	
84-74-2	Di-n-Butylphthalate		-;	440	10	
204-44-0	Fluoranthene		-:	440	10	
178-00-0	Pyrene			440	10	
05-40-7	Butylbenzylphthalate_		-;	440		
01-00-/	3,3'-Dichlorobenzidin		-!		••	
71-74-1	Description of the second of t	2	}	880	۱U	
010-01-0	Benzo(a)Anthracene		- !	440	: U	
218-01-9	Chrysene bis(2-Ethylhexyl)Phth:	- 7 /	<u>!</u>	440	l U	
117-81-7	bis(Z-Ethylnexyl)Phth	siate	- <u>!</u>	440	! U	
11/-84-0	Di-n-Octyl Phthalate_		- <u>!</u>	440	! U	
205-99-2	Benzo(b)Fluoranthene_		- !	440	:U	
207-08-9	Benzo(k)Fluoranthene_		- <u>!</u>	440	ŀυ	
50-32-8	Benzo(a)Pyrene		_ !	440	U	
193-39-5	Indeno(1,2,3-cd)Pyren	<u> </u>	_!	440	١U	
53-70-3	Dibenz(a,h)Anthracene		_!	440	i U	
191-24-2	Benzo(g,h,i)Perylene_		1	440	١U	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB20BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245836

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209303

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : 0 : | ========= | ===== | ====== | ====== | ===== | ===== | ===== | ===== | ===== |

SAMPLE NO.

02SB26BA

Lab Name: PACE INC.

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Samole ID: H247049

Sample wt/vol: 30.0 (q/mi) G Lab File ID: SBP08239306

Contract: ELLINGTON

Level: (low/med) LOW Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L ar ug/Kg) UG/KG 🚨

		-		
	1		1	;
108-95-2	Phenol;	450	١U	1
111-44-4	bis(2-Chloroethyl)Ether !	450	ŧυ	1
95-57-8	2-Chlorophenol ;	450	ΙU	1
541-73-1	1.3-Dichlorobenzene :	450	١U	
106-46-7	1,4-Dichlorobenzene	450	ŀυ	:
95-50-1	1.2-Dichlorobenzene :	450	IU.	1
95-48-7	2-Methylphenol	450	١U	1 1
108-60-1	2,2'-oxybis(1-Chloropropane)_;	450	!U	;
106-44-5	4-Methylphenol	450	١IJ	1
621-64-7	N-Nitroso-Di-n-Propylamine :	450	١U	:
67-72-1	Hexachloroethane	450	١U	1
98-95-3	Nitrobenzene !	450	ΙU	ţ
78-59-1	Isophorone	450	١U	i
88-75-5	Isophorone 2-Nitrophenol 2,4-Dimethylphenol 2	450	:U	1
105-67-9	2,4-Dimethylphenol!	450	١U	1
111-91-1	bis(2-Chloroethoxv)Methane :	450	ΙU	1
120-83-2	2,4-Dichlorophenol	450	١U	;
120-82-1	1,2,4-Trichlorobenzene	450	1U	1
91-20-3	Naphthalene	450	١U	1
106-47-8	4-Chloroaniline :	450	١U	!
87-68-3	Hexachlorobutadiene!	450	١U	1
59-50-7	4-Chloro-3-Methylphenol :	450	ΙU	;
91-57-6	2-Methylnaphthalene ;	450	ŀU	1
77-47-4	Hexachlorocyclopentadiene :	450	ŧυ	;
88-06-2	2,4,6-Trichlorophenol	450	١U	!
95-95-4	2,4,5-Trichlorophenol :	2200	: U	1
91-58-7	2-Chloronaphthalene	450	١U	1
88-74-4	2-Nitroaniline	2200	١U	-
131-11-3	Dimethyl Phthalate	450	١U	1
208-96-8	Acenaphthylene	450	10	
606-20-2	2,6-Dinitrotoluene	450	l U	ì
99-09-2	3-Nitroaniline	2200	: U	:
83-32-9	Acenaphthene	450	ΙU	:
	!	400	!	!
	<u> </u>		_'	'

SAMPLE NO.

02SB26BA

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08239306

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Ka) UG/KG

	**	1 1	- ;
51-28-	52,4-Dinitrophenol	2200 U	ļ
100-02	-74-Nitrophenol	; 2200 ;U	1
132-64	-9Dibenzofuran	450 IU	1
121-14	-22.4-Dinitrotoluen	e : 450 :U	1
84-66-	2Diethylphthalate_ 2-34-Chlorophenyl-ph	1 450 IU	:
7005-7	2-34-Chlorophenyl-ph	enylether: 450 IU	;
86-73-	7Fluorene	; 450 ¦U	ŧ
100-10	-c	, 2200 (0	:
534-52	-14,6-Dinitro-2-Met	hylphenol : 2200 IU	1
86-30-	6N-Nitrosodiphenyl	amine (1) : 450 U	f
101-55	-34-Bromophenyl-phe	nylether : 450 :U	ŀ
118-74	-1Hexachlorobenzene	1 450 IU	!
87-86-	5Pentachlorophenol	2200 111	:
85-01-	8Phenanthrene	; 450 ;U	1
120-12	-7Anthracene	1 450 IU	!
86-74-	8Carbazole	: 450 :11	ŀ
84-74-	2Di-n-Butylphthala	te ; 450 (U	ł
206-44	-OFluoranthene	; 450 !U	į
129-00	-0Pyrene	; 450 (U	1
85-68-	7Butvlbenzvlohthal	ate ! 450 !U	I
91-94-	13,3'-Dichlorobenz	idine ; 900 (U	1
56-55-	3Benzo(a)Anthracen	e ; 450 ;U	i
218-01	-9Chrysene	450 U	1
117-81	-7bis(2-Ethvlhexvl)	Phthalate : 450 :U	}
117-84	-ODi-n-Octyl Phthal	ate	1
205-99	-2Benzo(b)Fluoranth	ene : 450 :U	!
207-08	-9Benzo(k)Fluoranth	ene : 450 :U	1
50-32-	8Benzo(a)Pyrene	1 450 IU	:
193-39	-5Indeno(1,2,3-cd)P	yrene 450 U	!
53-70-	3Dibenz(a,h)Anthra	cene 450 U	•
191-24	-2Benzo(g,h,i)Peryl	ene 450 U	!
		1	

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB26BA

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08239306

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1			1		i i	ţ			Į	1
į.	CAS	NUMBER	: COMPOUND	NAME	l F	RT :	EST.	CONC.	: Q	ţ f
; =	=====	========	======================================	=========	!====	====;	======	======	:====	i
! _					1	i_			1	į

SAMPLE NO.

02SB26BARE

Lab Name:

PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID:

H247049RE

Sample wt/vol: 30.0 (q/mL) G

Lab File ID:

SBP08279302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

CAS NO.

Injection Volume: 2.0(uL)

COMPOUND

Dilution Factor:

1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(uo/L or uo/Kg) UG/KG

: 108-95-2----Phenol 450 :U : 111-44-4-----bis(2-Chloroethyl)Ether____ 450 10 450 : 0 : 95-57-8-----2-Chlorophenol 450 10 : 541-73-1-----1,3-Dichlorobenzene_____ 106-46-7-----1,4-Dichlorobenzene_____ 450 1U 10 | 95-50-1-----1,2-Dichlorobenzene_____ 450 ! 95-48-7-----2-Methylphenol_ 450 : 11 : 108-60-1-----2,2'-oxybis(1-Chloropropane)_: 450 : U 106-44-5-----4-Methylphenol__ : U 450 : 621-64-7----N-Nitroso-Di-n-Propylamine 450 111 : 67-72-1-----Hexachloroethane 450 !U ! 98-95-3-----Nitrobenzene_____ 450 10 : 78-59-1-----Isophorone 10 450 | 88-75-5----2-Nitrophenol 450 111 105-67-9----2,4-Dimethylphenol 450 !U 111-91-1----bis(2-Chloroethoxy)Methane 450 111 120-83-2----2,4-Dichlorophenol____ 450 10 120-82-1-----1,2,4-Trichlorobenzene____ 450 10 | 91-20-3-----Naphthalene 450 111 10 1 106-47-8-----4-Chloroaniline 450 | 87-68-3----Hexachlorobutadiene___ 450 10 : 59-50-7-----4-Chloro-3-Methylphenol____ 450 10 111 1 91-57-6-----2-Methylnaphthalene__ 450 : 77-47-4----Hexachlorocyclopentadiene____ 450 111 88-06-2----2,4,6-Trichlorophenol____ 450 : U 2200 : 95-95-4----2,4,5-Trichlorophenol_____ 10 | 91-58-7----2-Chloronaphthalene 450 10 88-74-4----2-Nitroaniline 2200 111 : 131-11-3-----Dimethyl Phthalate 450 111 : 208-96-8-----Acenaphthylene 450 111 1 606-20-2-----2,6-Dinitrotoluene 450 ŀυ ! 99-09-2-----3-Nitroaniline____ 2200 111 83-32-9-----Acenaphthene____ 450 : 11

SAMPLE NO.

02SB26BARE

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L or ug/Kg)		G	
i	51-20-5			0000	;	!
1	100-02-7	2,4-Dinitrophenol	· · · · · · · · · · · · · · · · · · ·	2200	i U	i
1	132-44-0	4-Nitrophenol		2200	: U	i
1	132-64-7	Dibenzofuran	i	450	10	i
1	24-14-2	2,4-Dinitrotoluene_		450	: U	
1	7005-70-7	Diethylphthalate 4-Chlorophenyl-phen	i	450	i U	i
1	7003-72-3	4-Cnioropnenyi-phen	ylether	450	: U	i
1	100-10-4	Fluorene 4-Nitroaniline		450	: U	i
1	574-50-1-	4-Nitroaniline	 !	2200	10	1
į	004-02-1	4,6-Dinitro-2-Methy	lphenol	2200	! U	1
i 1	101 55 7	N-Nitrosodiphenylam	ine (1)	450	i U	1
1	101-55-5	4-Bromophenyl-pheny	lether	450	l U	ł
i	118-/4-1	Hexachlorobenzene_		450	: U	i
i	8/-86-3	Pentachlorophenol			ΙU	1
į	85-01-8	Phenanthrene	i	450	ΙU	ł
i	- エンリーエンニノーニーー	Anthracene	i i	450	! U	1
ì	86-74-8	Carbazole Di-n-Butylphthalate	1	450	1 U	1
i	84-/4-2	Di-n-Butylphthalate		450	:U	1
	206-44-0	Fluoranthana	1	450	l U	1
i	129-00-0	PyreneButylbenzylphthalate	<u> </u>	450	١U	1
ŀ	85-68-7	Butylbenzylphthalate	e!	450	:U	į
1	71-74-1	3,3 -vichioropenzid:	ine :	900	:U	- 1
1	56-55-3	Benzo(a)Anthracene_		450	: U	ŀ
i	218-01-9	Chrysene	I	450	l U	- }
i	117-81-7	bis(2-Ethvlhexvl)Ph:	thalate !	450	l U	1
Î	117-84-0	Di-n-Octyl Phthalate	eI	450	:U	- {
į	205-99-2	Benzo(b)Fluoranthene	<u> </u>	450	l U	- 1
1	207-08-9	Benzo(k)Fluoranthene	e !	450	١U	}
į	-50-32-8	Benzo(a)Pyrene	:	450	!U	1
1	193-39-5	Indeno(1,2,3-cd)Pyre	ene !	450	١U	1
i.	53-70-3	Dibenz(a.h)Anthracer	ne :	450	l U	l,
1	191-24-2	Benzo(g,h,i)Perylene	2	450	l U	1
!					1	1.
	4.1 (5)					

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

02SB24BARE

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247049RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08279302

Level: (low/med) LOW

Date Received: 08/14/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/KG

CAS NUMBER 1 COMPOUND NAME | RT | EST. CONC. | Q

FORM I SV-TIC

SAMPLE NO.

SBLKSB

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Samole ID: H246507

Sample wt/vol: 30.0 (o/mL) G

Lab File ID: SBB08209302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

CAS NO.

COMPOUND

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

: 108-95-2----Phenol 330 l U : 111-44-4-----bis(2-Chloroethvl)Ether : 330 10 : 95-57-8-----2-Chlorophenol_____ 330 111 330 10 | 541-73-1----1,3-Dichlorobenzene_____| : 106-46-7-----1,4-Dichlorobenzene : 330 !U | 95-50-1----1,2-Dichlorobenzene 330 : 11 : 95-48-7-----2-Methylphenol__ 330 l U : 108-60-1----2,2'-oxybis(1-Chloropropane)_; 330 JU. : 106-44-5-----4-Methylphenol___ 330 IU 330 621-64-7----N-Nitroso-Di-n-Propylamine : U : 67-72-1-----Hexachloroethane 330 НU ! 98-95-3-----Nitrobenzene_____ 330 IU | 78-59-1-----Isophorone 330 !U : 88-75-5----2-Nitrophenol 330 10 105-67-9----2,4-Dimethylphenol___ 111 330 ': 111-91-1-----bis(2-Chloroethoxy)Methane____; 330 111 : 120-83-2----2,4-Dichlorophenol____ 330 111 : 120-82-1----1,2,4-Trichlorobenzene____ 330 :U | 91-20-3-----Naphthalene_____ 330 : U : 106-47-8-----4-Chloroaniline_____ 330 HU : 87-68-3-----Hexachlorobutadiene 330 111 : 59-50-7-----4-Chloro-3-Methylphenol____ 330 10 ŧШ : 91-57-6----2-Methylnaphthalene 330 330 : U : 77-47-4----Hexachlorocyclopentadiene____: : 88-06-2-----2,4,6-Trichlorophenol_____ 330 1U ! 95-95-4-----2,4,5-Trichlorophenol____ 1600 10 : 91-58-7----2-Chloronaphthalene____ 330 10 1600 10 : 88-74-4----2-Nitroaniline_ 131-11-3----Dimethyl Phthalate 330 10 : 208-96-8-----Acenaphthylene____ 330 10 330 111 : 606-20-2-----2,6-Dinitrotoluene_____ ! 99-09-2-----3-Nitroaniline_____ 1600 10 : 83-32-9-----Acenaphthene____ :U 330

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSB

Lab Name: FACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507

Sample wt/vol: 30.0 (q/mL) 6

Lab File ID: SBB08209302

Level: (low/med) LOW

Date Received:

CONCENTRATION UNITS:

% Moisture: decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	3		_		
 !		1		1	
!	51-28-5	2,4-Dinitrophenol	1600	ΙU	
	100-02-7	4-Nitrophenol	1600	ΙU	
!	132-64-9	Dibenzofuran	330	١U	
	121-14-2	2,4-Dinitrotoluene	330	١U	
	84-66-2	Diethylphthalate	330	١U	
	7005-72-3	4-Chlorophenyl-phenylether;	330	:U	
	86-73-7	Fluorene	330	١U	
	100-10-6	4-Nitroaniline	1600	١U	
	534-52-1	4,6-Dinitro-2-Methylphenol !	1600	۱U	
		N-Nitrosodiphenylamine (1)	330	١U	
		4-Bromophenyl-phenylether	330	١U	
	118-74-1	Hexachlorobenzene	330	ΙU	
	87-86-5	Pentachlorophenol	1600	١U	
	85-01-8	Phenanthrene	330	١U	
	120-12-7	Anthracene	330	١U	
	86-74-8	Carbazole	330	١U	
		Di-n-Butylphthalate	330	ŀU	
	206-44-0	Fluoranthene!	330	ΙU	
	129-00-0	Pyrene	330	١U	
	85-68-7	Butylbenzylphthalate	330	١U	
	91-94-1	3,3'-Dichlorobenzidine	660	ŀυ	
	56-55-3	Benzo(a)Anthracene	330	: 0	
	218-01-9	Chrysene	330	١U	
	117-81-7	bis(2-Ethylhexyl)Phthalate!	330	١U	
		Di-n-Octyl Phthalate	330	١U	
	205-99-2	Benzo(b)Fluoranthene	330	١U	
	207-08-9	Benzo(k)Fluoranthene	330	١U	
	50-32-8	Benzo(a)Pyrene	330	١U	
	193-39-5	Indeno(1,2,3-cd)Pyrene	330	١U	
	53-70-3	Dibenz(a,h)Anthracene	330	ίŪ	
		Benzo(g,h,i)Perylene	330	١U	
				1	

^{(1) -} Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSB

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB0B209302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

CAS NUMBER

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME | RT | EST. CONC. | Q |

FORM I SV-TIC

SAMPLE NO.

SBLKSC

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08239301

Level: (low/med) LOW

Date Received:

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

CAS NO.

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/KG

: 108-95-2----Phenol 330 111 | 111-44-4-----bis(2-Chloroethyl)Ether_____ 330 :U : 95-57-8-----2-Chlorophenol 330 : U : 541-73-1-----1,3-Dichlorobenzene : 330 :U : 106-46-7-----1,4-Dichlorobenzene : 330 l U | 95-50-1-----1,2-Dichlorobenzene____ 330 :U 95-48-7----2-Methylphenol___ 330 :U 1 108-60-1-----2,2'-oxybis(1-Chloropropane) ; 111 330 : 106-44-5-----4-Methylphenol____ 330 111 : 621-64-7----N-Nitroso-Di-n-Propylamine___: 330 !U 67-72-1-----Hexachloroethane____ 330 10 | 98-95-3----Nitrobenzene 330 : U 78-59-1----Isophorone____ 330 : U : 88-75-5----2-Nitrophenol 330 !U 105-67-9----2,4-Dimethylphenol___ Ш 330 ': 111-91-1-----bis(2-Chloroethoxy)Methane___; 330 :U | 120-83-2----2,4-Dichlorophenol____ 330 :U 120-82-1----1,2,4-Trichlorobenzene : 330 10 | 91-20-3-----Naphthalene_ 330 !U 106-47-8----4-Chloroaniline____ 330 IU | 87-68-3----Hexachlorobutadiene 330 :11 59-50-7----4-Chloro-3-Methylphenol____ 330 111 | 91-57-6----2-Methylnaphthalene____ 330 !U : 77-47-4-----Hexachlorocyclopentadiene : 330 10 | 88-06-2----2,4,6-Trichlorophenol____ 330 : U 95-95-4----2,4,5-Trichlorophenol____ 1600 1 U | 91-58-7----2-Chloronaphthalene____ 330 :U : 88-74-4----2-Nitroaniline____ !U 1600 131-11-3----Dimethyl Phthalate 330 :U | 208-96-8-----Acenaphthylene_____ 330 111 606-20-2----2,6-Dinitrotoluene____ 330 111 99-09-2----3-Nitroaniline____ 1600 IU 83-32-9-----Acenaphthene____ 330 !U

SAMPLE NO.

SBLKSC

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08239301

Level: (low/med) LOW

Date Received:

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/17/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

	22/11/2011/2		
	1		1
51-28-5	2,4-Dinitrophenol	1600	۱.
100-02-7	4-Nitrophenol	1600	:U
132-64-9	Dibenzofuran	330	۱U
121-14-2	2.4-Dinitrotoluene	330	!U
84-66-2	Diethylphthalate!4-Chlorophenyl-phenylether!	330	۱U
7005-72-3	4-Chlorophenyl-phenylether	330	IU
86-73-7	Fluorene	330	١U
100-10-6	4-Nitroaniline	1600	: U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	١U
86-30-6	N-Nitrosodiphenylamine (1)	330	!U
101-55-3	4-Bromophenyl-phenylether:	330	ŀU
118-74-1	Hexachlorobenzene	330	:U
87-86-5	Pentachlorophenol :	1600	١U
85-01-8	Phenanthrene :	330	:U
120-12-7	Anthracene	330	١U
86-74-8	Carbazole;	330	١U
84-74-2	Di-n-Butylphthalate	330	١U
206-44-0	Fluoranthene	330	١U
129-00-0	Pyrene:	330	:U
85-68-7	Butvlbenzvlphthalate :	330.	. 10
91-94-1	3,3'-Dichlorobenzidine	660	١U
56-55-3	Benzo(a)Anthracene	330	IU
218-01-9	Chrysene	330	١U
117-81-7	bis(2-Ethylhexyl)Phthalate :	330	ΙU
117-84-0	Di-n-Octyl Phthalate	330	١U
205-99-2	Benzo(b)Fluoranthene	330	1U
207-08-9	Benzo(k)Fluoranthene	330	۱U
50-32-8	Benzo(a)Pyrene		i U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	IU
53-70-3	Dibenz(a,h)Anthracene	330	10
191-24-2	Benzo(g,h,i)Perylene	330	10
			i —

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name:

PACE INC.

Contract: ELLINGTON

SBLKSC

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

SBB08239301

Level: (low/med) LOW

Date Received:

Date Extracted: 08/17/93

% Moisture:

decanted: (Y/N) N

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/23/93

CAS NUMBER

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME RT

: EST. CONC. : Q

1 B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

SBLKSI

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247657

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08259302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	lug/L or u	g/Kg) UG/KG	Q	
1			1		1	
1	108-95-2	Phenol	t	330	I U	i
1	111-44-4	bis(2-Chloroethy1)Eth	er!	330	: U	1
i t	95-57-8	2-Chlorophenol		330	١U	1
1	541-73-1	1,3-Dichlorobenzene_		330	: U	1
1	106-46-7	1,4-Dichlorobenzene_	!	330	: U	:
-	95-50-1	1,2-Dichlorobenzene_	1	330	! U	ŀ
î t	95-48-7	2-Methylphenol	!	330	: U	ì
ŀ	108-60-1	2,2'-oxybis(1-Chlorop	ropane)_!		: U	;
i	106-44-5	4-Methylphenol		330	! U	;
-{	621-64-7	N-Nitroso-Di-n-Propyl	amine		: U	;
ŧ	67-72-1	Hexachloroethane		330	! U	;
i	98-95-3	Nitrobenzene	1	330	i U	;
į	78-59-1	Isophorone		330	١U	- 1
ŧ	88-75-5	2-Nitrophenol	!	330	! U	1
		2,4-Dimethylphenol		330	١U	ŀ
		bis(2-Chloroethoxy)Me			: U	ł
1	120-83-2	2,4-Dichlorophenol		330	! U	1
1	120-82-1	1,2,4-Trichlorobenzer	re	330	: U	ŀ
1	91-20-3	Naphthalene	!	330	:U	1
ŧ	106-47-8	4-Chloroaniline		. 330	: U	:
1	87-68-3	Hexachlorobutadiene		330	: U	1
1	59-50-7	4-Chloro-3-Methylpher	ol		: U	ŧ
		2-Methylnaphthalene_		330	١U	1
		Hexachlorocyclopentac		330	: U	;
		2,4,6-Trichlorophenol		330	: U	;
ľ	95-95-4	2,4,5-Trichlorophenol	!	1600	! U	ł
-	91-58-7	2-Chloronaphthalene_	<u> </u>	330	١U	ľ
1	88-74-4	2-Nitroaniline	!	1600	ł U	;
1	131-11-3	2-Nitroaniline		330	١U	ŀ
1	208-96-8	Acenaphthylene		330	:U	ş
i	606-20-2	2,6-Dinitrotoluene	i	330	ΙU	ŀ
ł	99-09-2	3-Nitroaniline	1	1600	: U	i
1	83-32-9	Acenaphthene		330	١U	;
- 1			1		_!	!

SAMPLE NO.

SBLKSI

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247657

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08259302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/93

Injection Volume: 2.0(úL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CA	AS NO.	COMPOUND	(ug/L	or L	ıg/Kg)	UG/KG		Ö
1				:			;	;
: 51	28-5	2,4-Dinitrophenol_		!		1600	۱U	1
1 10	00-02-7	4-Nitrophenol	······	!		1600	: U	;
13	52-64-9	Dibenzofuran		;		330	١U	
1 12	21-14-2	2.4-Dinitrotoluene		:		330	: U	;
1 84	l-66-2	Diethylphthalate				330	١U	
1 70)05ーフクースーーー-	4-Chlorophenvl-nhe	nvlether	. !		330	١U	ţ
1 86	>-フ3-フ	Fluorene		!		330	١U	1
1 10	00-10-6	4-Nitroaniline				1600	١U	ŀ
: 53	54-52-1	Fluorene 4-Nitroaniline 4,6-Dinitro-2-Meth	ylphenol	;		1600	: U	1
1 86	,-3Q-6	N-Nitrosodiphenyla	mine (1)	1		330	: U	1
1 10	1-55-3	4-Bromophenyl-phen	vlether	;		330	ΙU	1
1 11	8-74-1	Hexachlorobenzene		:		330	١U	1
1 87	'-86-5	Pentachlorophenol		:		1600	۱U	!
1 85	1-01-8	Phenanthrene		!		330	١U	1
: 12	10-12-7	Anthracene		1		330	١U	
: 86	-/4-8	Carbazole		- 1		330	١U	;
84	-74-2	Di-n-Butylphthalate	e	1		330	: U	1
1 20	6-44-0	Fluoranthene		1		330	:U	ŧ
1 12	9-00-0	Pyrene		1		330	١U	1
: 85	-68-7	Butylbenzylohthala	te	!		330	: U	1
91	-94-1	3.3′-Dichlorobenzio	dine	!		660	١U	1
: 56	-55-3	Benzo(a)Anthracene		!		330	١U	;
21	8-01-9	Chrysene_ bis(2-Ethylhexyl)P		1		330	ΙU	1
11	7-81-7	bis(2-Ethylhexyl)P	hthalate			330	١U	ł
1 11	7-84-0	Di-n-Octyl Phthala:	te	:		330	ŧυ	;
20	5-99-2	Benzo(b)Fluoranthe	ne	!		330	:U	1
1 20	7-08-9	Benzo(k)Fluoranther	ne	1		330	ΙU	;
: 50	-32-8	Benzo(a)Pyrene		!		330	: U	ŀ
19	'3-39-5	Indeno(1,2,3-cd)Py:	rene	!		330	IU	;
: 53	-70-3	Dibenz(a.h)Anthrace	ene	:		330	ΙŪ	
19	1-24-2	Benzo(g,h,i)Peryler	ne			330	iu	1
!		2, ,,					. –	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSI

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H247657

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08259302

Level: (low/med) LOW

Date Received:

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/12/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/93

Injection Volume: 2.0(uL)

CAS NUMBER

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

. COMPOUND NAME

! RT

: EST. CONC. : Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKSJ

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL Lab Sample ID: H249014RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08279301

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	0.10 1.40	33111 20112	tag/2 at	ed, id,	007110	٠,	
ŀ		**************************************		;		ı	-:
1	108-95-2	Phenol bis(2-Chloroethyl)Et		_	330	١U	ŧ.
:	111-44-4	bis(2-Chloroethyl)Et	her		330	١U	1
1	95-57-8	-2-Chlorophenol_ -1,3-Dichlorobenzene_		_1	330	¦U	1
1	541-73-1	-1,3-Dichlorobenzene		_1	330	:U	1
- 1	106-46-7	-1.4-Dichlorobenzene		1	330	l U	1
:	95-50-1	-1.2-Dichlorobenzene		1	330	l U	;
1	95-48-7	2-Methylphenol		_!	330	! U	- 1
;	108-60-1	2-Methylphenol 2,2'-oxybis(1-Chloro	propane)	_1	330	!U	- 1
ì	106-44-5	4-Methylphenol		_1	330	l U	;
;	621-64-7	4-Methylphenol N-Nitroso-Di-n-Propy	lamine	_1	330	!U	1
ŀ	67-72-1	Hexachloroethane		<u></u> !	330	l U	\$ \$
- !	98-95-3	-Nitrobenzene		i	330	10	†
i	78-59-1	-Isophorone		_	330	ΙU	:
ŀ	88-75-5	-2-Nitrophenol		_1 -	330	l U	ļ
ł	105-67-9	-2,4-Dimethylphenol		_	330	!U	i
1	111-91-1	-bis(2-Chloroethoxy)M	lethane	_1	330	!U	į
ŧ	120-83-2	-2,4-Dichlorophenol		_1	330	l U	1
1	120-82-1	-1.2.4-Trichlorobenze	ne	I I	330	: U	-
ŧ	91-20-3	-Naphthalene		į.	330	١U	1
ě	106-47-8	-4-Chłoroaniline		;	330	l U	1
1	87-68-3	-Hexachlorobutadiene		;	330	IU	:
i	59-50-7	-4-Chloro-3-Methylohe	nol	1	330	:U	1
1	91-57-6	-2-Methylnaphthalene_		1	330	١U	- 1
. !	77-47-4	-Heyschlorocyclopents	diene	!	330	l U	1
ŀ	88-06-2	-2,4,6-Trichloropheno	1	- !	330	l U	;
i	95-95-4	-2,4,5-Trichloropheno	1	_;	1600	łU	;
i	71-36-/	-Z-Unioronaphthaiene		:	330	١U	!
1	88-74-4	-2-Nitroaniline		-	1600	١U	;
1	131-11-3	-2-Nitroaniline -Dimethyl Phthalate -Acenaphthylene -2,6-Dinitrotoluene -3-Nitroaniline		-	330	:U	;
;	208-96-8	-Acenaphthylene		-	330	lU	}•
ŀ	606-20-2	-2.6-Dinitrotoluene		-	330	!U	1
1	99-09-2	-3-Nitroaniline		- ;	1600	iU	- 1
1	83-32-9	-Acenaphthene			330	i U	i
1				- 1		-	1
				_			

SAMPLE NO.

SBLKSJ

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08279301

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/25/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or	ug/Kg) UG/K0	ì	Q
			1	1	
51-28-5	2,4-Dinitrophenol		1600		
100-02-7	4-Nitrophenol		1600		
132-64-9	Dibenzofuran		: 330		
121-14-2	2,4-Dinitrotoluene_		330		
84-66-2	Diethylphthalate		: 330		
7005-72-3	4-Chlorophenyl-pheny	lether	; 330		
86-73-7	Fluorene		: 330) [
100-10-6	Fluorene 4-Nitroaniline 4,6-Dinitro-2-Methyl		1 1600		
534-52-1	4,6-Dinitro-2-Methyl	phenol	1600		
86-30-6	N-Nitrosodiphenylami	ne (1)	: 330		
	4-Bromophenyl-phenyl) IU	
118-74-1	Hexachlorobenzene		; 330) IU	
87-86-5	Pentachlorophenol		1 1600) - IU	
85-01-8	Phenanthrene		: 330	UI (
120-12-7	Anthracene		: 330)	
86-74-8	Carbazole		; 330	UI (
84-74-2	Di-n-Butylphthalate_		; 330) []	
206-44-0	Fluoranthene		: 330	10	
129-00-0	Pyrene		330	10	
85-68-7	Butylbenzylphthalate		; 330	10	
91-94-1	3,3 ⁷ -Dichlorobenzidi	ne	660	10	
56-55-3	Benzo(a)Anthracene_		: 330) (U	
218-01-9	Chrysene		; 330	10	
117-81-7	bis(2-Ethylhexyl)Pht	halate	; 330	U) (
	Di-n-Octyl Phthalate			10	
205-99-2	Benzo(b)Fluoranthene		330	UI (
207-08-9	Benzo(k)Fluoranthene		330) [
50-32-8	Benzo(a)Pyrene		330) IU	
193-39-5	Indeno(1,2,3-cd)Pyre	ne	330		
53-70-3	Dibenz(a,h)Anthracer	16	330		
	Benzo(g,h,i)Perylene				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SBLKSJ

Lab Name: PACE INC.

Case No.: ELL1

Contract: ELLINGTON

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H249014RE

Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: SBB08279301

Level: (low/med) LOW

Date Received:

Date Extracted: 08/25/93

decanted: (Y/N) N

% Moisture:

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

COMPOUND NAME CAS NUMBER : RT | EST. CONC. | Q

FORM I SV-TIC

SAMPLE NO.

SBLKSK

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBB08279302

Level: (low/med) LOW

Date Received:

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

	15,572 27 37	,,,,,,,,	_
	1 1		;
108-95-2	Phenol; bis(2-Chloroethyl)Ether;	330	١U
111-44-4	bis(2-Chloroethy1)Ether :	330	l U
95-57-8	2-Chlorophenol; 1,3-Dichlorobenzene;	330	:U
541-73-1	1,3-Dichlorobenzene	330	١U
106-46-7	1,4-Dichlorobenzene	330	١U
95-50-1	1,2-Dichlorobenzene :	330	١U
95-48-7	2-Methylphenol;	330	١U
108-60-1	2.2'-oxybis(1-Chloropropane) :	330	:U
106-44-5	4-Methylphenol:	330	ΙU
621-64-7	4-Methylphenol;N-Nitroso-Di-n-Propylamine;	330	1U
67-72-1	Hexachloroethane	330	:U
98-95-3	Nitrobenzene :	330	!U
78-59-1	Isophorone :	330	:U
88-75-5	2-Nitrophenol :	330	:U
105-6/-9	2,4-Dimethylphenol	330	:U
111-91-1	bis(2-Chloroethoxy)Methane	330	:U
120-83-2	2,4-Dichlorophenol	330	١U
120-82-1	1.2.4-Trichlorobenzene :	330	١U
91-20-3	Naphthalene	330	١U
106-4/-8	4-Chloroaniline :	330 .	. 10
87-68-3	Hexachlorobutadiene	330	!U
59-50-7	4-Chloro-3-Methylphenol	330	١U
91-57-6	2-Methylnaphthalene!	330	. U
77-47-4	Hexachlorocyclopentadiene!	330	!U
88-06-2	2.4.6-Trichlorophenol	330	١U
95-95-4	2,4,5-Trichlorophenol	1600	l U
91-58-7	2-Chloronaphthalene	330	١U
88-74-4	2-Nitroaniline	1600	:U
131-11-3	Dimethyl Phthalate!	330	:U
208-96-8	Acenaphthylene	330	iū
606-20-2	2,6-Dinitrotoluene	330	Ι υ
99-09-2	3-Nitroaniline	1600	iu
83-32-9	Acenaphthene	330	: U
		234	!

10 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

SBLKSK

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246507RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08279302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	(ug/L	or t	rð/Kð)	UG/KG	!	Q
1					1		1	t
!	51-28-5	2,4-Dinitrophenol_			ŀ	1600	:U	1
ŧ	100-02-7	4-Nitrophenol			:	1600	١U	. 1
i	132-64-9	Dibenzofuran			i i	330	! U	ł
1	121-14-2	2,4-Dinitrotoluene			<u> </u>	330	l U	;
ţ	84-66-2	Diethylphthalate			i i	330	١U	ŧ
Ţ	7005-72-3	4-Chlorophenyl-phe	nylether		i i	330	١U	;
i	86-73-7	Fluorene 4-Nitroaniline 4,6-Dinitro-2-Meth			i	330	١U	1
1	100-10-6	4-Nitroaniline			•	1600	١U	ŧ
Ť	534-52-1	4,6-Dinitro-2-Meth	ylphenol		!	1600	١U	!
ĭ	86-30-6	N-Nitrosodiphenyla	mine (1)		i	330 -	:U	;
ì	101-55-3	4-Bromophenyl-phen	ylether_		\	330	١U	1
ŀ	118-74-1	Hexachlorobenzene_			ł	330	:U	-
ł	87-86-5	Pentachlorophenol_			}	1600	١U	- 1
ŀ	85-01-8	Phenanthrene			l	330	: U	i
1	120-12-7	Anthracene			ł	330	١U	ł
ŧ	86-74-8	Carbazole				330	: U	;
1	84-74-2	Di-n-Butylphthalat	e			330	١U	:
Ī	206-44-0	Fluoranthene			}	330	: U	;
1	129-00-0	Pyrene			ļ	330	ΙU	ł
1	85-68-7	Butylbenzylphthala	te		1	330	١U	1
I	91-94-1	3,3'-Dichlorobenzi	dine			660	١U	ŧ
1	56-55-3	Benzo(a)Anthracene			ŀ	330	:U	t F
i	218-01-9	Chrysene			ł	330	١U	:
!	117-81-7	bis(2-Ethylhexyl)P	hthalate		1	330	: U	;
	117-84-0	Di-n-Octyl Phthala	te		ŀ	330	١U	;
!	205-99-2	Benzo(b)Fluoranthe	ne		i i	330	١U	1
1		Benzo(k)Fluoranthe				330	١U	ł
1	50-32-8	Benzo(a)Pyrene			s 8	330	١U	1
1	193-39-5	Indena(1,2,3-cd)Py	rene		i i	330	١U	1
1	53-70-3	Dibenz(a,h)Anthrac	ene		;	330	١U	1
1		Benzo(g,h,i)Peryle			t 1	330	١U	i
1					i		_'	

^{(1) -} Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

Lab Name: PACE INC.

Contract: ELLINGTON

SBLKSK

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Samole ID: H246507RE.

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBB08279302

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 08/27/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/27/93

Injection Volume: 2.0(aL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER : COMPOUND NAME : RT : EST. CONC. : Q :

SAMPLE NO.

02SB20BAMS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1 SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245837MS

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209304

Level: (low/med) LOW

Date Received: 08/05/93

CONCENTRATION UNITS:

% Moisture: 26 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

		-		
	1		1	
108-95-2	Phenol!	450	ŧυ	
111-44-4	bis(2-Chloroethvl)Ether	450	: U	
95-57-8	2-Chlorophenol	450	! U	
541-73-1	1.3-Dichlorobenzene :	450	ΙU	
106-46-7	1,4-Dichlorobenzene	450	IU	
95-50-1	1.2-Dichlorobenzene :	450	IU .	
95-48-7	2-Methylphenol	450	:0	
108-60-1	2,2'-oxybis(1-Chloropropane)_;	450	l U	
106-44-5	4-Methylphenol	450	١U	
621-64-7	N-Nitroso-Di-n-Propylamine	450	ΙU	
67-72-1	Hexachloroethane;	450	; U	
98-95-3	Nitrobenzene;	450	١U	
78-59-1	Isophorone :	450	١U	
88-75-5	2-Nitrophenol	450	١U	
105-67-9	2,4-Dimethylphenol:	450	١U	
111-91-1	bis(2-Chloroethoxy)Methane	450	: U	
120-83-2	2,4-Dichlorophenol	450	ΙU	
120-82-1	1,2,4-Trichlorobenzene :	450	10	
91-20-3	Naphthalene!	450	ΙU	
106-47-8	4-Chloroaniline!	450	: U	
87-68-3	Hexachlorobutadiene:	450	١U	
59-50-7	4-Chloro-3-Methylphenol:	450	l U	
91-57-6	2-Methylnaphthalene!	450	١U	
77-47-4	Hexachlorocyclopentadiene!	450	١u	
88-06-2	2,4,6-Trichlorophenol	450	١U	
95-95-4	2,4,5-Trichlorophenol:	2200	١U	
91-58-7	2-Chloronaphthalene	450	١U	
88-74-4	2-Nitroaniline	2200	:U	
131-11-3	Dimethyl Phthalate;	450	١ ٢	
208-96-8	Acenaphthylene!	450	١U	
606-20-2	2,6-Dinitrotoluene	450	ΙÜ	
99-09-2	3-Nitroaniline	2200	١Ū	
83-32-9	Acenaphthene	450	١U	
			1	

Lab Samole ID: H245837MS

Date Received: 08/05/93

Dilution Factor:

Lab File ID: SBP08209304

450

450

450

450

450 IU

450 IU

10

:U

10

ΙU

10 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

02SB20BAMS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

Sample wt/vol: 30.0 (g/mL) G

SDG No.: PKG2

Matrix: (soil/water) SOIL

Level: (low/med) LOW

% Moisture: 26 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/KG : 51-28-5----2,4-Dinitrophenol_____ 2200 10 ! 100-02-7-----4-Nitrophenol_____ 2200 l U 132-64-9-----Dibenzofuran : 450 10 | 121-14-2----2,4-Dinitrotoluene_____ 450 10 84-66-2----Diethylphthalate 450 !U : 7005-72-3-----4-Chlorophenyl-phenylether___ 450 : 11 | 86-73-7-----Fluorene 450 111 100-10-6----4-Nitroaniline 2200 111 : 534-52-1-----4,6-Dinitro-2-Methylphenol____: 2200 :U ! 86-30-6----N-Nitrosodiphenylamine (1)____; !U 450 450 l U : 118-74-1-----Hexachlorobenzene_____: 450 10 | 87-86-5-----Pentachlorophenol_____ 2200 10 : 85-01-8-----Phenanthrene____ 450 !U | 120-12-7-----Anthracene_____ 450 IU : 86-74-8-----Carbazole : 450 1 U 84-74-2-----Di-n-Butylphthalate 450 111 : 206-44-0-----Fluoranthene_____ 450 111 | 129-00-0----Pyrene_ 450 HU : 85-68-7----Butylbenzylphthalate_____ 450 ... IU | 91-94-1----3,3'-Dichlorobenzidine_____ 890 IU : 56-55-3-----Benzo(a)Anthracene____ ΙU 450 : 218-01-9-----Chrysene_ 450 10 117-81-7-----bis(2-Ethylhexyl)Phthalate : 450 10 117-84-0----Di-n-Octyl Phthalate____ 450 111

(1) - Cannot be separated from Diphenylamine

: 50-32-8-----Benzo(a)Pyrene_____

: 205-99-2-----Benzo(b)Fluoranthene_____:

| 207-08-9----Benzo(k)Fluoranthene______

! 193-39-5-----Indeno(1,2,3-cd)Pyrene____!

: 53-70-3-----Dibenz(a,h)Anthracene_____:

191-24-2----Benzo(g,h,i)Perylene____

SAMPLE NO.

02SB20BAMSD

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H245838MSD

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: SBP08209305

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CONCENTRATION UNITS: (ua/L or ua/Ka) UG/KG 🛛 🔾

	CAS NO.	COMPOUND		ug/Kg)		0	ס
1				1		1	!
?	108-95-2	-Phenol -bis(2-Chloroethyl)Et			450	١U	1
1	111-44-4	-bis(2-Chloroethyl)Et	her		450	١U	;
1	95-57-8	-2-Chlorophenol		1	450	! U	ŧ
i	541-73-1	-1.3-Dichlorobenzene		1	450	IU	;
ī	106-46-7	-1.4-Dichlorobenzene		1	450	! U	ł
1	95-50-1	-1.2-Dichlorobenzene		1	450	l U	1
!	95-48-7	-2-Methylphenol		1	450	ŀU	1
i	108-60-1	-2.2′-oxybis(1-Chloro	propane)	1	450	١U	ŀ
!	106-44-5	-4-Methylphenol			450	١U	1
1	621-64-7	-N-Nitroso-Di-n-Propy	lamine	1 .	450	:U	}
i	67-72-1	-Hexachloroethane			450	:U	\$ 1
£	98-95-3	-Nitrobenzene		į.	450	:U	Ţ
1	78-59-1	-Isophorone		}	450	10	1
ł	88-75-5	-2-Nitrophenol		}	450	IU	;
i	105-67-9	-2,4-Dimethylphenol		1	450	:U	1
1	111-91-1	-bis(2-Chloroethoxv)M	lethane	ł	450	I U	;
ţ	120-83-2	–2,4–Dichlorophenoĺ		<u> </u>	450	ŧυ	;
1	120-82-1	-1,2,4-Trichlorobenze	ne	1	450	١U	:
i	91-20-3	-Naphthalene		_ i	450	١U	;
ì	106-47-8	-4-Chloroaniline		1	450	:U	1
1	87-68-3	-Hexachlorobutadiene_			450	١U	:
E	59-50-7	-4-Chloro-3-Methylohe	nol	ł	450	:U	:
i	91-57-6	-2-Methylnaphthalene_		_ ;	450	IU	ł
1	77-47-4	-Hexachlorocyclopenta	diene	;	450	١U	1
ł	88-06-2	-2,4,6-Trichloropheno	1		450	۱U	ţ į
1	95-95-4	-2,4,5-Trichlorophenc	1	_;	2200	١U	:
1	91-58-7	-2-Chloronaphthalene_			450	١U	1
1	88-74-4	-2-Nitroaniline		_,	2200	:U	!
1	131-11-3	-Dimethyl Phthalate		_	450	١U	1
:	208-96-8	-Acenaphthylene			450	ΙU	
1	606-20-2	-2,6-Dinitrotoluene_		_	450	ΙŪ	1
:	99-09-2	-3-Nitroaniline			2200	IU	:
ŧ	83-32-9	-Acenaphthene		-	450	ΙŪ	1
!			7			1	1

SAMPLE NO.

02SB20BAMSD

Lab Name: PACE INC.

Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (spil/water) SOIL

Lab Sample ID: H245838MSD

Sample wt/vol: 30.0 (g/mL) 5

Lab File ID: SBP08209305

Level: (low/med) LOW

Date Received: 08/05/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO. COMPOUND 2200 IU | 51-28-5----2,4-Dinitrophenol_____ 2200 i U

| 100-02-7----4-Nitrophenol_____ 450 111 132-64-9-----Dibenzofuran____ 10 450 | 121-14-2----2,4-Dinitrotoluene____ 450 IU : 84-66-2-----Diethylphthalate___ : 7005-72-3-----4-Chlorophenyl-phenylether 450 !U | 86-73-7-----Fluorene 450 10 100-10-6-----4-Nitroaniline : U 2200 + 534-52-1-----4,6-Dinitro-2-Methylphenol___ 2200 111 450 10 : 86-30-6----N-Nitrosodiphenylamine (1)___ : 101-55-3-----4-Bromophenyl-phenylether 450 10 450 10 118-74-1----Hexachlorobenzene : 87-86-5----Pentachlorophenol____ 2200 : U 450 10 | 85-01-8-----Phenanthrene_____ .: 120-12-7-----Anthracene 450 :11 : 86-74-8-----Carbazole___ 450 10 : 84-74-2----Di-n-Butylphthalate____ 450 111 : 206-44-0-----Fluoranthene____ 450 : U | 129-00-0----Pyrene_ 450 H : 85-68-7----Butylbenzylphthalate_____ 450 10 900 10 : 91-94-1-----3,3'-Dichlorobenzidine_____ : 56-55-3----Benzo(a)Anthracene_____ 450 10 450 IU | 218-01-9-----Chrysene_ ! 117-81-7-----bis(2-Ethylhexyl)Phthalate____; 450 111 450 | 117-84-0-----Di-n-Octyl Phthalate_____ :U 450 10 : 205-99-2----Benzo(b)Fluoranthene_____ 10 1 207-08-9-----Benzo(k)Fluoranthene 450 : 50-32-8-----Benzo(a)Pyrene 450 10 | 193-39-5----Indeno(1,2,3-cd)Pyrene____ 450 !U 450 : U ! 53-70-3-----Dibenz(a,h)Anthracene_____ 450 :U : 191-24-2-----Benzo(q,h,i)Perylene____

(1) - Cannot be separated from Diphenylamine

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SAMPLE NO.

LCS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: SBP08209301

Level: (low/med) LOW

Date Received: 08/09/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor:

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

108-95-2		CAS NO.	COMPOUND	(ug/L or ug/K		מ)
111-44-4	1			1			!
95-57-8	ł	108-95-2	Phenol				i
541-73-11,3-Dichlorobenzene 330 U 106-46-71,4-Dichlorobenzene 330 U 95-50-11,2-Dichlorobenzene 330 U 95-48-72-Methylphenol 330 U 108-60-12,2'-oxybis(1-Chloropropane) 330 U 106-44-54-Methylphenol 330 U 621-64-7N-Nitroso-Di-n-Propylamine 330 U 67-72-1Hexachloroethane 330 U 98-95-3Nitrobenzene 330 U 188-752-Nitrophenol 330 U 105-67-92,4-Dimethylphenol 330 U 111-91-1	ł	111-44-4	bis(2-Chloroethyl)Et	ther!			i
541-73-11,3-Dichlorobenzene 330 U 106-46-71,4-Dichlorobenzene 330 U 95-50-11,2-Dichlorobenzene 330 U 95-48-72-Methylphenol 330 U 108-60-12,2'-oxybis(1-Chloropropane) 330 U 106-44-54-Methylphenol 330 U 621-64-7N-Nitroso-Di-n-Propylamine 330 U 67-72-1Hexachloroethane 330 U 98-95-3Nitrobenzene 330 U 188-752-Nitrophenol 330 U 105-67-92,4-Dimethylphenol 330 U 111-91-1	1	95-57-8	2-Chlorophenol	<u> </u>			i
95-50-1	i	541-73-1	1,3-Dichlorobenzene	<u> </u>			1
95-48-72-Methylphenol	1	106-46-7	1,4-Dichlorobenzene	}			ł
108-60-12,2'-oxybis(1-Chloropropane)	i	95-50-1	1,2-Dichlorobenzene	f		: U	1
108-60-12,2'-oxybis(1-Chloropropane) 330 U 106-44-54-Methylphenol 330 U 621-64-7Nhitroso-Di-n-Propylamine 330 U 67-72-1Hexachloroethane 330 U 78-95-3Nitrobenzene 330 U 78-59-1Isophorone 330 U 105-67-92,4-Dimethylphenol 330 U 111-91-1bis(2-Chloroethoxy)Methane 330 U 120-83-22,4-Dichlorophenol 330 U 120-83-21,2,4-Trichlorobenzene 330 U 120-82-11,2,4-Trichlorobenzene 330 U 106-47-84-Chloroaniline 330 U 106-47-84-Chloroaniline 330 U 17-57-62-Methylphenol 330 U 17-47-4Hexachlorocyclopentadiene 330 U 17-47-4	1	95-48-7	2-Methylphenol	!		! U	ì
106-44-54-Methylphenol	1	108-60-1	2,2′-oxybis(1-Chlore	opropane)_!	330	l U	ł
67-72-1	!	106-44-5	4-Methylphenol	I	330	١U	ŧ
67-72-1	1	621-64-7	N-Nitroso-Di-n-Propy	/lamine¦		ιU	;
78-95-3	1	67-72-1	Hexachloroethane		330	! U	1
78-59-1	1	98-95-3	Nitrobenzene		330	! U	ŀ
88-75-52-Nitrophenol 330 U 105-67-92,4-Dimethylphenol 330 U 111-91-1bis(2-Chloroethoxy)Methane 330 U 120-83-22,4-Dichlorophenol 330 U 120-82-11,2,4-Trichlorobenzene 330 U 120-82-1Naphthalene 330 U 160-47-8	1	78-59-1	Isophorone		330	! U	1
105-67-92,4-Dimethylphenol	1	88-75-5	2-Nitrophenol	ŀ	330	! U	1
111-91-1bis(2-Chloroethoxy)Methane	1	105-67-9	2,4-Dimethylphenol		330	l U	1
120-83-22,4-Dichlorophenol					330	: U	1
120-82-11,2,4-Trichlorobenzene					330	: U	1
91-20-3Naphthalene					330	: U	1
106-47-84-Chloroaniline	1	91-20-3	Naphthalene	!	330	١U	1
1 87-68-3	i	106-47-8	4-Chloroaniline	1	330	: U	1
59-50-74-Chloro-3-Methylphenol					330	١U	1
91-57-62-Methylnaphthalene					330	:U	i
77-47-4					330	: U	1
88-06-22,4,6-Trichlorophenol					330	١U	;
95-95-42,4,5-Trichlorophenol					330	١U	;
91-58-72-Chloronaphthalene	!	95-95-4	2.4.5-Trichlorophen	21	1600	!U	ł
88-74-42-Nitroaniline	ì	91-58-7	2-Chloronaphthalene		330	١U	:
131-11-3Dimethyl Phthalate	•	88-74-4	2-Nitrospiline	1	1600	:U	ţ
208-96-8Acenaphthylene	;	131-11-3	Dimethyl Phthalate]		ΙU	1
606-20-22,6-Dinitrotoluene	ì						L
99-09-2	!	606-20-2	2.6-Dinitrotoluene	·			Ĭ
83-32-9Acenaphthene	1	99-09-2	I-Nitrospiline				-
ncertabilitiere	1	83-32-9	Acensonthene	<u> </u>			1
	1	UU UE /	ricenaphonene	<u> </u>	000	1	i

SAMPLE NO.

LCS

Lab Name: PACE INC. Contract: ELLINGTON

Case No.: ELL1

SDG No.: PKG2

Matrix: (soil/water) SOIL

Lab Sample ID: H246506

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: SBP08209301

Level: (low/med) LOW

Date Received: 08/09/93

% Moisture:

decanted: (Y/N) N

Date Extracted: 08/09/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/20/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

		i		ŀ	
51	l -28-5	2,4-Dinitrophenol	1600	:U	
10	00-02-7	4-Nitrophenol	1600	١U	
13	52-64-9	Dibenzofuran;	330	: U	
12	21-14-2	2,4-Dinitrotoluene¦	330	: U	
84	1-66-2	Diethylphthalate;	330	:U	
70	005-72-3	4-Chlorophenyl-phenylether:	330	: U	
86	5-73-7	Fluorene	330	: U	
10	00-10-6	4-Nitroaniline; 4,6-Dinitro-2-Methylphenol;	1600	; U	
53	34-52-1	4,6-Dinitro-2-Methylphenol!	1600	١U	
86	5-30-6	N-Nitrosodiphenylamine (1)	330	: U	
		4-Bromophenyl-phenylether:		١U	
1 1	18-74-1	Hexachlorobenzene;	330	: U	
87	7-86-5	Pentachlorophenol! Phenanthrene	1600	: U	
85	5-01-8	Phenanthrene!	330	! U	
12	20-12-7	Anthracene;	330	١U	
88	5-74-8	Carbazole;	330	l U	
84	1-74-2	Di-n-Butylphthalate :	330	١U	
20	06-44-0	Fluoranthene	330	١U	
12	29-00-0	Pyrene:	330	١U	
85	5-68-7	Butylbenzylphthalate!	- 330	JU	
		3,3'-Dichlorobenzidine		ŧυ	
56	5-55-3	Benzo(a)Anthracené :	330	:U	
21	18-01-9	Chrysene:	330	١U	
1 1	17-81-7	Chrysene: bis(2-Ethylhexyl)Phthalate:	330	١U	
1:	17-84-0	Di-n-Octyl Phthalate!	330	: U	
		Benzo(b)Fluoranthene:		:U	
		Benzo(k)Fluoranthene		:U	
50)-32-8	Benzo(a)Pyrene;	330	١U	
1	 73-39-5	Indeno(1,2,3-cd)Pyrene;	330	:U	
5:	3-70-3	Dibenz(a,h)Anthracene	330	١U	
		Benzo(g,h,i)Perylene;		١U	
_		1		!	